



Hearing, Eye, Face, Head and Chain Saw Protection 2011



www.elvex.com



OSHA's Hearing Conservation Requirements

Whenever feasible, employers are required to reduce the noise at the source through engineering solutions. When this is not possible or economically feasible it is acceptable to use hearing protection as a temporary solution. The term hearing conservation as defined by OSHA includes the following aspects, which the employer is responsible to carry out:

- Monitoring of the noise environment. If the TWA (Time Weighted Average) noise level is exceeding 85 dB(A), a hearing conservation program is required.
- Selecting hearing protection devices appropriate for the environment or environments at hand. Several different types of hearing protectors are required to be offered to the employees in order to introduce a level of personal choice. The employer is responsible to pay for the original equipment as well as replacements. The employees are required to use the hearing protection, and the employer is responsible for the enforcement.
- Training and educating employees in the proper use of hearing protection and the importance of full time use of hearing protectors when working in a noisy environment. Education and training is considered an essential and ongoing activity.
- Establishing a baseline audiogram for each noise exposed employee, and performing annual hearing tests thereafter in order to monitor the hearing health of the employees. Have the audiograms evaluated by an audiologist or physician.
- Take corrective action when it is concluded that noise induced hearing damage is occurring. Corrective action can entail further education and training in the use and importance of full time use of hearing protection. Seeking the use of hearing protectors better suited to the environment and the individual. Using, what is called administrative controls, which simply means to reduce the exposure time for the employee in question. If these efforts fail, an employee may be transferred to a quieter job.
- The above summary of OSHA's hearing conservation requirements is not intended to be complete. The complete regulation (29CFR-1910.95) is available on the internet. You can access it from Elvex website, by clicking on "Resources" on our home page, www.elvex.com.

Some Sound Advice!

OSHA's Permissible Noise Exposure

90 dB	8.0 hours
92 dB	6.0 hours
95 dB	4.0 hours
97 dB	3.0 hours
100 dB	2.0 hours
102 dB	1.5 hours
105 dB	1.0 hours
110 dB	30 minutes
115 dB	15 minutes

How to use the NRR

When the dB(C) noise level is known, you don't have to adjust the NRR:

Noise level at ear: dB(C) - NRR \leq 90 dB

When the noise level is known in dB(A) the NRR must be reduced by 7 dB:

Noise level at ear: dB(A) - [NRR -7] \leq 90 dB

Overprotection can be a problem!

Selecting a high NRR hearing protector for an environment where only good high frequency attenuation is needed, will lead to unnecessary insulation and communication difficulties.

Field Attenuation

It has been proven in many studies that hearing protectors are not as effective in the field, as the laboratory numbers indicate. In the laboratory the hearing protectors are used correctly, while in many field situations they are not. Employees are either not trained or motivated to make the effort to use the protectors in a correct way. NIOSH recommends a de-rating of 50-70% for earplugs and 25% for earmuffs.

Is Your Program Working?

How do you know if your hearing conservation program is working? The answer is in your annual audiograms. If they do not show any new noise induced hearing damage, your program is working.

New Product Highlights

PAGES 24-25

Tectra™ Safety Helmet

Elvex Tectra safety helmet won product of the year award from OH&S magazine.

- Striking design
- Ventilated & dielectric models
- Four suspension options
- Rain trough
- Designed for accessories



PAGE 23

Electric ARC Shields

Now sold as complete systems, with head, face and hearing protection.

- New generation
- Higher calorie ratings
- Complete kits available



PAGE 35-42

Ballistic ratings

Ten models of our safety glasses have been tested for ballistic impact resistance.

- Impact velocity is four times that required by ANZI Z87.1-2010
- See video and more technical information at:
<http://www.elvex.com/Ballistic-testing-of-safety-glasses.htm>



PAGE 26

Logger's Helmets

The ProGuard Systems are now available in standard and ventilated versions.

New Product Highlights



Ballistic Vo Rated

PAGE 37

Sync™ Safety Glasses

These new safety glasses offer universal fit and a smart, stylish design.

- Unisex size and design
- Inexpensive
- Built-in brow guard
- Ballistic impact rated



PAGE 42

Go-Specs™ II

These new safety glasses offer universal fit and a smart, stylish design.

- Held in place with an adjustable strap
- Automatic swivel adjustment
- Anti-fog coated lenses
- Ballistic impact rated



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Go-Specs™ III

This is our third generation of foam lined spectacles.

- Foam-lined safety glasses, a low cost alternative
- Standard anti-fog coated lenses

OTHER

- ProVest is now available in size XXL. Pg 28.
- Xenon safety glasses available with amber lens. Pg 38.
- Sonoma safety glasses is now offered w/Polarized lenses Pg 34.



Elvex Quattro™ Ear Plugs

Quattro is a universal size reusable ear plug, designed to be used over and over again, with maintained comfort and effectiveness. Elvex Quattro offers the following features:

- A four flange design that allows this ear plug to fit almost all ear canals.
- An ultra-soft polymer provides a comfortable and effective seal.
- A sturdy and stiff handle that allows an easy grip for insertion and removal.
- Material is resistant to ear wax and body oils, and will outlast PVC ear plugs by many months.
- Polymer is non-allergenic and non-irritating to the sensitive skin in the ear canal.
- Noise Reduction Rating is 25 dB, and the test was performed to ANSI S3.19-1974 at an independent and certified laboratory, NVLAP #0427.
- Quattro has been assigned U.S. Military national stock numbers.



EP-401

Packaging Alternatives

Elvex Quattro is available in six different versions.

- EP-401** Standard Quattro ear plugs packaged in individual poly-bags. 100 per dispenser box, 4 boxes per carton.
- EP-411** Corded Quattro ear plugs packaged in individual poly-bags. 100 per dispenser box, 4 boxes per carton.
- EP-413** PVC-Corded Quattro packaged in individual poly-bags. 100 per dispenser box, 4 boxes per carton.
- EP-402** Standard Quattro ear plugs, with plastic case and chain, packaged in individual poly-bags. 50 units per box, 4 boxes per carton.
- EP-412** Corded Quattro ear plugs, with plastic case and chain, packaged in individual poly-bags. 50 units per box and 4 boxes per carton.
- EP-415** Metal detectable, corded Quattro ear plugs in individual poly-bags. 100 per box, 4 boxes per carton.

CE 26 SNR



25 dB NRR



ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	29.4	30.8	31.8	32.1	33.1	37.8	36.8	39.5	39.5	32	29	28	25
	Std. Deviation	4.3	4.0	3.9	3.3	2.6	3.6	3.3	4.5	2.8				
	Protection Value	19.4	22.1	20.0	20.8	21.0	28.1	28.7	32.7					

CE EN-352-2:1993	Frequency, Hz	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
	Mean Value, dB	25.1	26.8	25.7	26.5	25.2	32.9	33.9	39.4				
	Std. Deviation	5.7	4.7	5.7	5.7	4.2	4.8	5.2	6.7	27	22	21	26
	Protection Value	19.4	22.1	20.0	20.8	21.0	28.1	28.7	32.7				

Elvex Uni-Fit™

Foam Ear Plugs with higher rating and easier insertion

Elvex Uni-Fit foam ear plugs use a slow expansion Polyurethane foam, that makes it easier for inexperienced users to make a good insertion. A correctly inserted plug will allow the user to get the benefit of the excellent attenuation. It is a known fact that laboratory attenuation data often cannot be achieved in the field, as a result of poor user insertion technique. With slow expansion foam, the user gets a better chance of achieving a good fit.

Elvex Uni-Fit Features:

- Elvex Uni-Fit has a Noise Reduction Rating of 31 dB. Tested to ANSI S3.19-1974 at an independent and certified laboratory.
- Uni-Fit is also CE certified and tested to EN-352 by INSPEC Laboratories in the UK. Single Number Rating (SNR) is 36 dB.
- Elvex Uni-Fit foam ear plugs are easy to insert correctly due to their tapered shape and slow expansion rate.
- The smooth surface and low pressure foam provide the most comfortable fitting foam ear plugs on the market.
- One size fits all! The dimensions of Elvex Uni-Fit allow virtually every ear canal to be correctly fitted.
- Multilingual Packaging; English, Spanish and French, assures that proper usage information is available where the ear plugs are dispensed.
- Available in standard and corded versions.

EP-101 Standard, 200 pairs per dispenser box, 5 boxes per carton.

EP-113 PVC-corded, 100 pairs per dispenser box, 5 boxes per carton.

Attenuation properties of Elvex Uni-Fit ear plugs:

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	39.9	42.2	43.6	39.5	38.4	46.0	47.9	48.4	48.8	38	37	37	31
	Std. Deviation	5.3	5.8	5.5	4.3	3.0	4.9	3.7	5.0	4.1				
CE EN-352-2:2002	Frequency, Hz	63	125	250	500	1000	2000	4000	8000		H	M	L	SNR
	Mean Value, dB	33.2	35.6	35.8	38.8	37.4	38.7	46.9	44.4		35	33	31	36
	Std. Deviation	4.5	6.2	7.0	6.3	6.0	5.0	4.8	5.2					
	Protection Value	28.7	29.4	28.8	32.5	31.4	33.7	42.1	39.2					



A Plug for Today's Demands

Today's hearing protection users demand a high level of comfort, excellent noise reduction properties as well as ease of insertion. Elvex Blue offers that and more.

Safety and health professionals demand a foam plug which is easy to administer and offers a high level of hygiene. They also require a plug that provides excellent attenuation, is visually easy to monitor and meets with employee acceptance. Elvex Blue satisfies all these demands and more.

Elvex Blue Features:

- Elvex Blue has a Noise Reduction Rating of 32 dB. Tested to ANSI S3.19-1974 by an independent laboratory.
- Elvex Blue is CE certified and tested to EN-352-2 by INSPEC Laboratories in the UK. Single Number Rating (SNR) is 36 dB.
- Elvex Blue foam plugs are easy to insert correctly due to their tapered shape and slow expansion rate.
- Elvex specially formulated low pressure foam provides the most comfortable fitting foam plug on the market.
- One size fits all! The dimensions of Elvex Blue allow virtually every ear canal to be fitted correctly.
- High visibility color makes it easy to monitor and enforce proper ear plug usage.
- Multilingual Packaging, English, Spanish and Chinese, assures that proper usage information is available where the plugs are dispensed.

EP-201 Standard, 200 pairs per dispenser box, 5 boxes per carton.

EP-211 Corded, 100 pairs per dispenser box, 5 boxes per carton.

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	39.1	40.9	41.4	39.5	39.0	45.4	47.9	48.7	47.1	38	37	37	32
	Std. Deviation	4.5	4.5	5.0	3.9	3.3	2.9	3.3	4.1	3.5				
CE EN-352-2:2002	Frequency, Hz	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
	Mean Value, dB	31.2	35.3	36.5	38.3	37.3	38.1	48.0	46.1	36	32	32	36	
	Std. Deviation	3.9	5.1	5.0	6.3	6.8	3.1	3.0	3.8					
	Protection Value	27.3	30.2	31.5	32.0	30.5	35.0	45.0	42.3					



Banded Ear Pod for Ultimate Comfort

What is the advantage of a Banded Ear Pod versus Ear Plugs or Ear Muffs?

A banded pod is easier to insert than an ear plug, and since it is kept in place by the headband force, it does not have to be as deeply inserted. Since the pod part does not have to stay in the ear canal with friction it can also use softer and more flexible composites, allowing a higher degree of comfort. An ear pod can be cooler than an ear muff, which can be very critical in some environments. Generally ear muffs provide higher noise reduction properties than ear pods or canal caps.

What is the difference between a Banded Ear Pod and a Banded Canal Cap/Plug?

Our definition of an ear pod is a device that seals the ear canal opening, but applies most of the force of the headband in the outer ear. A banded canal cap/plug on the other hand is a device which enters the ear canal or ear canal opening and the headband force is not applied in the outer ear. An ear pod has the tendency to be more comfortable than a canal cap, but the canal cap generally provides higher attenuation.

GelCaps™

Elvex GelPods and GelCaps

Our new GelPods and GelCaps are both innovative products, that provide several improvements:

- Pods/Caps are made from a unique composite three times as soft as the softest reusable silicone ear plug.
- Both devices have extraordinary sound reduction properties in the low and high frequencies. Tested to ANSI S3.19-1974 and EN-352-2.
- Attenuation in the speech frequencies is flat in order to allow speech communication in noisy environments. Both GelPods and GelCaps offer this feature, but the GelCaps provide generally higher attenuation.

GP-10 GelPods, Banded Ear Pods, 18 dB NRR, 22 dB SNR

GC-20 GelCaps Banded Ear Canal Caps, 23 dB NRR, 23 dB SNR



ANSI	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	28.5	25.2	22.3	22.1	31.8	38.1	39.3	40.8	39.1	27	20	20	18
	Std. Deviation	4.6	4.0	3.5	3.5	3.2	2.9	3.8	3.0	3.8				
CE	Frequency, Hz	63	125	250	500	1000	2000	4000	8000		H	M	L	SNR
	Mean Value, dB	20.8	23.3	20.4	19.1	21.0	29.9	34.2	36.2		25	18	16	22
	Std. Deviation	6.7	6.5	4.2	5.1	3.4	2.7	3.0	7.4					
EN-352-2:1993														
	Protection Value	14.1	16.8	16.2	14.0	17.6	27.2	31.2	28.8					



ANSI	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	33.5	31.9	31.2	29.6	36.7	42.5	42.5	42.2	41.8	32	27	27	23
	Std. Deviation	4.5	4.6	4.6	4.1	4.7	4.7	5.3	5.1	4.5				
CE	Frequency, Hz	63	125	250	500	1000	2000	4000	8000		H	M	L	SNR
	Mean Value, dB	24.1	27.1	25.7	21.6	22.2	32.6	38.1	38.8		26	19	19	23
	Std. Deviation	5.0	5.3	4.4	5.1	4.3	5.2	4.7	7.4					
EN-352-2:1993														
	Protection Value	19.1	21.8	21.3	16.5	17.9	27.4	33.4	31.4					

ValueMuff™

ValueMuff™, Comfort and Protection

Most buyers and users of ear muffs are looking for a product that offers great looks, good comfort and attenuation at a reasonable price. The following features needed and wanted by most buyers are offered by Elvex ValueMuff:

- Soft and pliable SuperSeal™ ear cushions.
- Low headband force and light-weight
- Ease of adjustments with flexible slide clips.
- Capable of multi-position use, optional support strap available (SS-25).
- Noise Reduction Rating of 25 dB NRR as tested to ANSI S3.19-1974. Single Number Rating of 28 dB as tested to EN-352-1. Tests performed at independent and certified laboratories.
- Dielectric construction.
- A competitive price, well below any corresponding competitive product, with similar NRR.

HB-25 ValueMuff, 25 dB NRR, 28 dB SNR

HK-25 Hygiene Kit, ear cushions & foam pads



CE 28 SNR

New
"Unbreakable
Headband"



NET WT: 7.8 oz. or 222 g.

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	13.1	19.8	29.3	37.6	36.7	33.3	36.3	36.6	35.6	35	28	19	25
	Std. Deviation	2.0	1.7	1.8	1.8	2.0	2.2	2.9	4.0	2.1				

CE EN-352-1:1993	Frequency, Hz	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
	Mean Value, dB	13.6	13.4	18.3	26.8	35.5	33.2	32.8	33.2	30	25	17	28
	Std. Deviation	3.2	3.4	2.4	2.8	3.4	4.0	2.6	3.4				
Protection Value		10.4	10.0	15.9	24.0	32.1	29.2	30.2	29.8				

MaxiMuff™

MaxiMuff™, High Performance Economy Ear Muff, 28 dB NRR

With Elvex MaxiMuff you get all the features and performance without paying the price that normally is associated with a high performance product.

- SuperSeal ear cushions for long term comfort.
- A soft cushioned headband.
- Self-aligning suspension, and easy adjustment.
- Multi-position use with optional Support Strap (SS-25).
- Noise Reduction Rating of 28 dB as tested to ANSI S3.19-1974. Single Number Rating of 30 dB as tested to EN-352-1. Tests performed at independent and certified laboratories.
- Dielectric construction.
- Sophisticated design and durable materials.
- Best price in its performance class.

HB-35 MaxiMuff, 28 dB NRR, 30 dB SNR

HK-35 Hygiene Kit, ear cushions & foam pads

CE 30 SNR



NET WT: 9.8 oz. or 278 g.

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	17.6	24.1	32.6	39.9	37.6	37.0	37.9	40.0	40.2	36	31	23	28
	Std. Deviation	2.0	2.0	2.4	3.2	2.6	1.9	2.6	2.2	2.4				

CE EN-352-1:1993	Frequency, Hz	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
	Mean Value, dB	14.6	14.2	22.3	32.2	37.4	34.1	33.7	36.8	32	28	18	30
	Std. Deviation	4.2	3.7	3.5	3.2	4.3	3.1	3.2	2.7				
Protection Value		10.4	10.5	18.8	29.0	33.1	31.0	30.5	34.1				



UltraSonic™ High Performance Muff

Elvex UltraSonic earmuff is our latest high performance muff with a stainless steel headband. It replaces our model HB-50. This model has been designed to provide excellent full spectrum attenuation, as well as superb low frequency attenuation. UltraSonic uses a fork type headband for even distribution of pressure, and improved balance required for extra deep ear cups.

- 29 dB NRR from certified US laboratory to ANSI S3.19-1974, and 34 dB SNR tested to CE EN-352-1
- Superb full spectrum attenuation
- Extra wide ear cushions and a soft padded head cushion for the highest comfort
- Low force stainless steel headband, also tolerates temperature extremes
- Lightweight construction
- You get the ultimate performance and comfort with this muff

HB-650 UltraSonic high performance muff, 29 dB NRR, 34 dB SNR.

HB-550 UltraSonic foldable high performance muff, 27 dB NRR.

HK-650 Hygiene kit, ear cushions and foam absorbers.



NET WT: 10.2 oz. or 290 g.

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	22.1	27.9	34.9	35.8	37.3	41.4	42.3	41.6	41.2	37	33	27	29
	Std. Deviation	2.9	2.8	3.4	2.0	2.5	2.7	2.8	3.1	3.7				
CE EN-352-2:2002	Frequency, Hz	63	125	250	500	1000	2000	4000	8000		H	M	L	SNR
	Mean Value, dB	19.3	19.3	26.1	34.0	39.6	35.1	43.5	38.9		35	32	24	34
	Std. Deviation	3.8	2.7	2.8	2.6	3.2	3.0	2.9	5.2					
Protection Value		15.5	16.6	23.3	31.4	36.4	32.1	40.6	33.7					

Flat-Liner™

Maximum Comfort

Elvex Flat-Liner was originally designed to provide flat attenuation for 500 Hz and up, but the market has shown no interest in this concept. That's why we have redesigned this product to offer a medium level of attenuation and absolutely maximum level of comfort. This is how we maximized comfort:

- Low headband force
- Soft, wide ear cushions in order to distribute the force over a larger surface area
- Steel headband tolerates temperature extremes without losing force
- 26 dB NRR from certified US laboratory to ANSI S3.19-1974, and 32 dB SNR to CE EN-352-1
- This earmuff may just have the right attenuation for most noise environments.

HB-640 Flat-Liner Muff, max comfort, 26 dB NRR, 32 dB SNR

HK-640 Hygiene kit, ear cushions and foam absorbers

SGB-30 Storage bag for muffs



NET WT: 8.2 oz. or 232 g.

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	17.8	25.0	34.0	35.8	31.9	35.9	35.2	38.3	39.2	32	29	23	26
	Std. Deviation	2.4	2.9	2.6	2.9	1.6	3.0	2.4	3.5	4.1				
CE EN-352-1:2002	Frequency, Hz	63	125	250	500	1000	2000	4000	8000		H	M	L	SNR
	Mean Value, dB	18.1	15.7	24.4	34.8	41.1	33.0	38.4	37.4		33	30	21	32
	Std. Deviation	3.1	2.8	2.3	3.3	2.8	2.2	3.0	3.4					
Protection Value		15.0	12.9	22.1	31.5	38.3	30.8	35.4	34.0					

SuperSonic™

SuperSonic™ 29

Elvex SuperSonic muff is one of only a few ear muffs that have achieved a 29 dB NRR rating at an independent and certified laboratory in accordance with ANSI S3.19-1974. Superior performance has been achieved in these measurable criteria:

- 29 dB Certified NRR to ANSI S3.19-1974
- New generation has improved attenuation over the full frequency range
- The SuperSonic muff has one of the lowest weights in its class
- SuperSonic has low headband force, and a pressure equalizing headband provides even fit and seal for a wide variety of facial configurations and sizes
- SuperSeal™ ear cushions provide outstanding seal and comfort
- A flexible suspension allows muffs to automatically adjust to facial shape
- A dielectric construction for environments with exposure to high voltage situations

HB-5000 SuperSonic, 29 dB NRR

HK-30 Hygiene Kit, ear cushions & foam pads, (manufactured before June 2006)

HK-5000 Hygiene Kit, ear cushions & foam pads, (manufactured after June 2006)



NET WT: 9.7 oz. or 274 g.

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	20.3	25.6	37.4	40.2	36.4	36.4	42.8	41.4	40.0	37	34	26	29
	Std. Deviation	2.6	2.0	2.6	2.9	2.3	2.6	2.6	2.4	1.7				

Equalizer™

Equalizer™ 27

Elvex Equalizer muff may be the ultimate compromise between comfort and performance. It offers most of the features of the SuperSonic muff, but has a lower profile ear cup, and excellent comfort. Most environments do not require maximum attenuation, and the Equalizer maximizes speech communication in moderate noise environments. Additional features of the Equalizer muff:

- 27 dB Certified NRR to ANSI S3.19-1974
- New generation has improved attenuation and improved NRR
- A flexible inner headband aligns automatically to the shape of the head
- Fully dielectric construction
- Low equalized headband force
- Flexible Polyurethane suspension for automatic alignment, and noise insulation

HB-2000 Equalizer, 27 dB NRR

HK-30 Hygiene Kit, ear cushions & foam pads, (manufactured before June 2006)

HK-2000 Hygiene Kit, ear cushions & foam pads, (manufactured after June 2006)



NET WT: 8.5 oz. or 240 g.

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	18.6	21.2	34.0	36.6	36.8	36.2	37.6	38.8	38.7	36	30	23	27
	Std. Deviation	2.6	1.9	2.2	2.2	2.5	2.7	2.5	2.5	2.1				



BrushGuard™ CoolGuard™

Elvex BrushGuard™/CoolGuard™

When more than one type of protection is required, the solution can end up being cumbersome. Elvex has combined hearing and face protection into one handy solution, which is easier to use, more lightweight and also less expensive than the use of separate hearing and face protection devices. The high performance muff provides 27 dB NRR. The nylon mesh visor model (HB-7000) is for outdoor applications, where ventilation is a requirement. This is a convenience shield, and it does not meet ANSI requirements. The polycarbonate shield version (HB-3000) meets ANSI high velocity requirements. Observe that ANSI Z87 requires the use of suitable eye protection, in addition to the use of face shields.

- HB-7000** BrushGuard™, Equalizer earmuffs (27 dB NRR), nylon mesh visor (7" x 14").
- HB-3000** CoolGuard™, Equalizer earmuffs (27 dB NRR), Polycarbonate face shield (8" x 15" x 0.04").
- NV-7000** Replacement nylon visor for BrushGuard.
- FS-3000** Replacement Polycarbonate shield for CoolGuard.

Plug-in™ Receiver Muff

Elvex Plug-in Com muff can be connected to Com radios, FM radios, MP3 players and similar devices, if they are equipped with an output jack for a 3.5 mm plug. The headset is equipped with a coiled cord with a 3.5 mm stereo plug. Three plug adaptors are included for 2.5 mm jacks and mono and stereo applications. You will hear the sound from your device, loud and clear, up to the maximum sound level allowed by the specific Plug-in model. External volume control allows user to turn down the volume on the headset. Elvex Plug-in is tested by an independent laboratory to ANSI S12.6-2008 with a rating of 29-36 dB NRS (Noise Reduction Statistic).

- Com-610** Headset with 82 dB limiter, 25 dB NRR, 3.5 mm stereo plug
- Com-611** Headset with 85 dB limiter, 25 dB NRR, 3.5 mm stereo plug
- Com-612** Headset w/o limiter, 0 dB NRR, 3.5 mm stereo plug
- HK-600** Hygiene kit, replacement ear cushions and foam absorbers.



Mil-Spec, Com-550

Elvex Impulse foldable ear muff is equipped with noise suppression and communications circuitry. Users are getting impulse noise (such as gun fire) suppression, while the electronic circuitry simultaneously enhances weak sounds, such as an instructors voice. Sounds exceeding 82 dB are suppressed by a gain limiter.

- Elvex Impulse is a foldable hearing protector with 25 dB NRR. A heavy duty nylon case is included
- The hearing protector has two external microphones and two independent volume controls, positioned on the two ear cups. Each ear cup is equipped with its own electronic circuitry, thus requiring no wires between the two ear cups. The sound reception is stereophonic, with maintained directional hearing.
- An electronic gain limiter limits the sound produced inside the headset to 82 dB, in order to maintain hearing protector integrity.
- An impulse filter makes Elvex Impulse very effective on the shooting range. The gun shots are eliminated, but the shooting instructor can still be heard.

Level Dependent, Com-655

Elvex Level Dependent muff uses the same technical components and features (including impulse filter) as Elvex Com-550, but the electronics is tuned for continuous industrial noise, and the muff is a non foldable construction.

- The communications features allow you to have close range communications in select continuous noise environments. The microphones on the outside of the ear muffs "listen to" the environment and can amplify weak sounds, and the gain limiter suppresses sounds exceeding 82 dB. Frequencies below 400 Hz and above 4,000 Hz are not processed and therefore the speech to noise ratio can be improved in many continuous noise environments.
- An audio jack (3.5 mm jack) for connection of radios is standard. This jack will provide listen-only capability (not two way communications). You can hear both the auxiliary device and Com-655.
- Com-655 uses two 1.5 Volt AAA batteries. Batteries are included. The headset will operate for approximately 175 hours on one set of batteries, under normal circumstances.
- An auto off switch will turn off the headset after four hours of continuous use, in order to conserve battery use.



- An audio jack (3.5 mm jack) for connection of radios is standard. This jack will provide listen-only capability (not two way communications). You can hear both the auxiliary device and Com-550.
- Elvex Com-550 uses four 1.5 Volt AAA batteries, two on each side. Batteries are included. The headset will operate for approximately 200 hours on one set of batteries, under normal circumstances. An auto off switch will turn off the headset after four hours in order to conserve battery use.



Cap mount available



ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	15.7	21.9	31.2	34.9	34.9	37.1	39.4	39.9	39.4	35	29	21	25
	Std. Deviation	2.7	2.8	3.2	1.9	2.5	3.4	2.2	3.6	3.5				

Com-550 Elvex Impulse, Mil-Spec, carrying case included, 25 dB NRR

Com-655 Elvex Level Dependent ear muff, 25 dB NRR

HK-600 Hygiene Kit consisting of replacement ear cushions and foam absorbers

DeTune™ Communications Earmuffs

Voice communication in noisy environments has always presented a number of challenges. Elvex DeTune provides effective hearing protection, and allows the user to adjust the frequency range of the sound that is transmitted through the speakers.

- A volume control allows the user to set the sound level inside the headset, up to a maximum of 82 dB.
- Two control knobs allow the user to filter out the high and the low frequencies independently of each other. When the filters are in the inactive position the user will hear the environment almost as if no hearing protector was worn, except for the maximum sound limiter.
- When filtering is applied the internal sound volume is kept constant by an automatic gain control (AGC).
- The high frequency filter allows an aggressive filtering of the high frequencies, down to about 3,000 Hz. The filter eliminates about 75% of the high frequencies within the adjustment range, and can be considered semi-transparent. If used in an environment dominated by high frequency noise, it can be clearly perceived that the headset filters out a large part of the undesirable noise. The most important speech frequencies are in the range of 500-3,000 Hz., and we are attempting to filter out most frequencies outside of this range. Elvex DeTune does however provide a choice to the user in how much filtering is desirable, and allows the user to seek out the filtering level that is optimal for the environment.
- The low frequency filter works in a similar fashion, allowing the user to filter out frequencies up to 600 Hz. The effectiveness of the low frequency filter is not as obvious as the high filter.
- DeTune is also equipped with an impact filter. This filter is activated by impact sounds, such as gunfire or rivet operations. The impact filter closes in a few microseconds and reactivates in about half a second.
- Com-640 is equipped with an automatic 4-hour shut-off in order to conserve batteries.
- This headset uses two AAA alkaline batteries, and they are accessible from an exterior battery compartment.
- An audio jack (3.5 mm) for connection of radios and MP3 players is standard. This jack will provide listen-only capability (not two way communications).



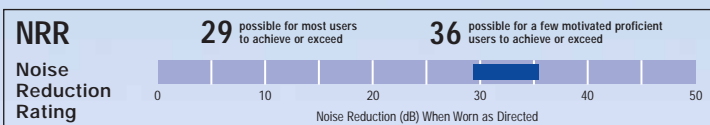
- It is important to understand that the electronics in the DeTune hearing protector does not improve the attenuation properties of the passive hearing protector. The electronics simply allow improvement of voice communication and speech understanding, while you continue to protect your hearing.

Com-640 DeTune headset, 29-36 dB NRS to ANSI S12.6.-2008.

HK-600 Hygiene Kit, ear cushions & foam absorbers.

ANSI S12.6-2008

Frequency, Hz	125	250	500	1000	2000	4000	8000
APV 80, dB	17.4	22.9	30.9	37.1	27.5	34.6	34.5
Mean Value, dB	20.7	26.3	34.3	39.5	32.0	39.0	38.8
Std. Deviation	3.9	4.0	4.1	2.8	5.4	5.2	5.1



Aware Am/Fm radio ear muffs

With Aware™ Am/Fm radio ear muffs you can hear what's going on around you, and communicate with coworkers without removing the hearing protection.

Features:

Summary: Elvex Aware, Com-680, is a hearing protector with built-in stereo Am/Fm Radio, and Aware™ technology. The Aware technology allows you to listen to the environment and communicate with coworkers while listening to the radio. Com-680 provides Radio-reception on the FM-band between 88 and 108 MHz and on the AM-band between 520 and 1700 KHz, while still protecting your hearing in an efficient and comfortable way. Accessory jack for Com radios and MP3 players.

- A sensitive radio offers FM and AM reception, so that you may listen to music, your favorite sports team or talk radio show.
- Aware technology allows you to hear the environment and communicate with coworkers while listening to the radio or auxiliary devices.
- Com-680 uses two AA alkaline batteries (included) and they are replaceable through an external battery compartment. A fresh set of batteries provides about 150 hours of operation.
- Just in case you forget to turn off your radio head-set, we have assured that you do not come back to a dead unit, by incorporating an automatic four-hour shutoff.
- The sound generated by the speakers is limited to a safe 82 dB level with the use of a gain limiter.
- In dependent testing established a Noise Reduction Rating of 22 dB and a SNR of 27 dB.
- Excellent sound quality: oversized speakers.
- Electronics in a protected compartments, separated from the ear cavity
- Soft cushioned headband and replaceable ear cushions.
- Ergonomic placement of controls for easy adjustment even with gloved hands.
- Accessory jack/Input jack that allows connection of auxiliary devices, such as MP3 players, CD-players and communications radios. Device connected to the input jack, can be heard individually or at the same time as radio and Aware technology.
- Available accessory: Muff kit with connection cables and storage bag.



Com-680 Aware AM/FM radio earmuffs.

Com-680-Kit Kit, consisting of one Com-680 with one cable with 3.5 mm stereo plugs in both ends, one connection wire with 3.5 mm and 2.5 mm plugs. Connection cables are approximately 1.0 m (3.3 feet) long. Also included is a micro-fiber storage bag.

HK-600 Hygiene Kit, replacement ear cushions and foam absorbers

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6000	8000	H	M	L	NRR
	Mean Value, dB	15.7	19.3	27.1	31.7	35.2	40.6	40.4	39.3	39.2	33	26	20	22
	Std. Deviation	3.2	2.4	3.3	2.8	3.1	3.9	4.8	5.6	6.1				
CE EN-352-1:2002	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	SNR
	Mean Value, dB	12.9	17.6	28.5	29.3	31.4	36.7	40.6	40.5	39.3	31	24	16	27
	Std. Deviation	3.3	3.3	2.9	4.0	2.7	4.0	3.6	3.6	4.0				
	Protection Value	9.6	14.3	25.6	25.3	28.7	32.8	36.9	36.9	35.3				

Quietunes Pro™



Quietunes,™ A high visibility and high performance model

Elvex newest Quietunes AM/FM model is our response to the markets requirement for a higher attenuation model. Available in both standard and rechargeable models.

- The electronics has been separated from the hearing protection cavities, in order to avoid the problems associated with moisture and sweat affecting the life span of the electronics.
- A sensitive radio offers FM and AM reception, so that you may listen to music, your favorite sports team or talk radio show.
- The standard model uses two AA alkaline batteries (included) and they are replaceable through an external battery compartment. A fresh set of batteries provides about 150 hours of operation.
- Also available as a rechargeable model, Com-666R. Batteries are Nickel Metal Hydrate.
- Just in case you forget to turn off your radio head-set, we have assured that you do not come back to a dead unit, by incorporating an automatic four-hour shutoff.
- The sound generated by the speakers is limited to a safe 82 dB level with the use of a gain limiter.
- Independent testing to the new ANSI S12.6-2008 standard established a Noise Reduction Statistic of 28 dB to 36 dB depending on user skill level.
- Input jack that allows connection of auxiliary devices, such as MP3 players, CD-players and communications radios.
- Available accessory: Muff kit with connection cables and storage bag.

Com-666 Quietunes AM/FM radio earmuffs.

Com-666-Kit Kit, consisting of one Com-666 with one cable with 3.5 mm stereo plugs in both ends, one connection wire with 3.5 mm and 2.5 mm plugs. Connection cables are approximately 1.0 m (3.3 feet) long. Also included is a micro-fiber storage bag.

Com-666R Quietunes rechargeable radio ear muffs.



COM-666R

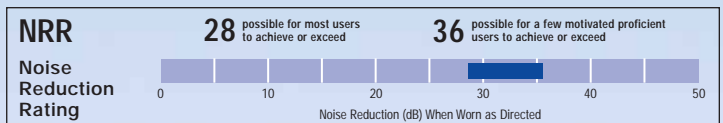


Com-666R-Kit Kit, consisting of one Com-666R with one cable with 3.5 mm stereo plugs in both ends, one connection wire with 3.5 mm and 2.5 mm plugs. Connection cables are approximately 1.0 m (3.3 feet) long. Also included is a micro-fiber storage bag.

HK-600 Hygiene Kit, replacement ear cushions and foam absorbers

ANSI S12.6-2008

Frequency, Hz	125	250	500	1000	2000	4000	8000
APV 80, dB	14.4	19.1	31.1	36.3	34.2	39.5	37.5
Mean Value, dB	17.0	20.6	32.7	39.0	36.7	42.7	39.6
Std. Deviation	3.1	1.8	1.9	3.2	3.0	3.8	2.6



Quietunes AM/FM™

Quietunes™ 660/660R, AM/FM Radio Ear Muffs

Elvex new Quietunes AM/FM model is our response to the market's requirements for a high quality, low cost model. Quietunes 660 offers the following features:

- All components for Quietunes 660 electronics have been designed specifically for this model and this has resulted in a contemporary and functional product. The electronics have been separated from the hearing protection cavities in order to avoid the problems associated with moisture and sweat affecting the life span of the electronics.
- The radio has FM and AM reception with improved sensitivity and station lock allowing you to listen to music, your favorite sports team or talk radio show. Com-660 runs on two AA alkaline batteries and they are replaceable through an external battery compartment. A fresh set of batteries provides about 150 hours of operation.
- Com-660R is a rechargeable model, using Nickel Metal Hydrate batteries. A 120 Volt charger is included.
- Just in case you forget to turn off your radio headset, we have incorporated an automatic four-hour shutoff.
- A new 3.5 mm input jack has been added in order to make it possible to listen to auxiliary devices such as i-Pods, scanners and Com-radios. The signal is sent through the amplifier and the headset must be turned on.
- The sound generated by the speakers is limited to a safe 82 dB level.
- Independent testing of the attenuation has established a Noise Reduction Rating of 22 dB NRR and 27 dB SNR to CE, EN-352.

- Com-660** Quietunes AM/FM radio earmuffs
Com-660-Kit Kit that includes a Com-660, two connection wires and a storage bag
Com-660R Rechargeable Quietunes earmuffs
Com-660R-Kit Kit that includes a Com-660R, two connection wires and a storage bag
HK-600 Hygiene Kit, replacement ear cushions and foam absorbers



COM-660



COM-660R

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	15.7	19.3	27.1	31.7	35.2	40.6	40.4	39.3	39.2	33	26	20	22
	Std. Deviation	3.3	2.4	3.3	2.8	3.1	3.9	4.8	5.6	6.1				
CE EN-352-1:2002	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	SNR
	Mean Value, dB	12.9	17.6	28.5	29.3	31.4	36.7	40.6	40.5	39.3	31	24	16	27
	Std. Deviation	3.3	3.3	2.9	4.0	2.7	4.0	3.6	3.6	4.0				
	Protection Value	9.6	14.3	25.6	25.3	28.7	32.8	36.9	36.9	35.3				

QuickSnap™

New Generation of Cap Mount Ear Muffs More than Muffs—Systems Solutions

Elvex QuickSnap cap mount ear muffs have for many years been the best selling brand. This is probably due to our product's functionality; high noise reduction properties, dielectric construction and the ability to combine our cap mount muffs with a full range of face protection products.

This is our third generation of cap mount muffs. Our product line has been completely re-tooled and re-engineered. While we have built on our established product line, we have improved most aspects of the products both functionally and acoustically.

- Four models are available with Noise Reduction Ratings (NRR's) of 24, 25, 27 and 28 dB. Testing was performed at an independent and certified laboratory, NVLAP # 0427.
- Construction is dielectric, certified by independent testing.
- Two integrated rest positions are provided. Flip out muffs for short term break, or flip them up for permanent storage on top of safety cap.
- Most lightweight construction. Product weighs from 7.5 oz - 9.4 oz.. Competitive models often weigh substantially more.
- Arm assembly with universal blade (example, HM-6093) mounts to most slotted safety caps. Blade is an integrated part of the muff arm assembly and there are no separate parts to purchase. Remove slot filler for narrower slots (MSA).
- Additional specialty blades are available for certain brands of safety caps (see part number listing).
- Muffs can be mounted onto un-slotted safety caps and bump caps with our QuickSlot™ adaptor, which creates an accessory slot. System remains dielectric. Why would your company's workers deserve anything less than the best? Safety equipment should be at work, helping productivity without interfering with the job at hand.

- HM-25-93/29/30/31** Standard profile cap mount earmuff (212 g) ,24 dB NRR, CE 26 dB SNR
- HM-20-93/29/30/31** Medium profile cap mount earmuff (230 g) with 25 dB NRR
- HM-60-93/29/30/31** Large volume cap mount earmuff (242 g) with 27 dB NRR
- HM-80-93/29/30/31** SuperSonic cap mount earmuff (268 g) with 28 dB NRR

HM-93** This universal blade fits 29 mm and most 33 mm wide accessory slots.. Remove slot filler for narrower slots. For use with AO Safety, ERB, Willson Alpha/Beta. Can be used with all HM-**29 listed caps.

HM-29** This blade can be used with Elvex, Jackson, MSA V-Guard, American All Safe, Fibre Metal (with Elvex Quick-Slot QS-29), and Sellstrom caps.

HM-30** This blade is used with Elvex SC-50, MSA V-Guard Advance, North, Salisbury, and Arcon caps.

HM-31** This blade is used with Bullard and ERB caps.



HM-2030 with 25 dB NRR



HM-6093 with 27 dB NRR



HM-8031 with 28 dB NRR



Innovative solutions. Always a step ahead.

Integrated System

All Elvex cap mount muffs are designed to accept our Visor Bracket (VB-10, VB-20 and VB-30). The muffs have an accessory slot that allows the mounting of the Visor Bracket, without the use of any tools. The bracket can be adjusted forward or backward to give a perfect fit with almost every safety cap. The Visor Bracket accepts a full range of Elvex face shields, visors, steel screens, nylon screens, hard coated shields, silver and gold coated shields. Illustrated on this page is Elvex QuickSlot (QS-29), that creates an accessory slot on un-slotted safety caps. Also shown is the Visor Bracket (VB-10/20) and the Slot Adapters (SA-93/29/30/31), that will make it possible to mount the Visor Bracket and face shields to a safety cap, without the use of hearing protection.

VB-10 Visor Bracket

VB-20 Visor Bracket with a wider top brow, for use with short brim safety caps. VB-20 also allows space for use of respirator when used with a standard brim safety helmet.

VB-30 Visor Bracket designed for safety cap models with a sloping brim, or elevated accessory slots.

QS-29 Quick Slot, creates an accessory slot.

For Elvex SC-50, MSA V-guard Advance, North A29/A29R and Salisbury caps use SA-30 slot adaptor and VB-30

For AO Safety and Willson Alpha/Beta use SA-93 with VB-10 or VB-20.

For American Allsafe, Jackson, MSA V-Guard caps use SA-29 with VB-10 or VB-20.

For Bullard and ERB caps use SA-31 with VB-10, VB-20.

For Fibre Metal caps use Quick Slot (QS-29) with SA-29 and VB-10, VB-20 or VB-30.

For Arcon, North A59/A69/A79 caps use SA-30 with VB-10, VB-20 or VB-30.

For Balance AC, JSP, Protector, and most European caps use SA-29.

CE 26 SNR



HM-2593 muff with VB-30 + FS-12L

ANSI S3.19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
HM-20	Mean Value, dB	18.5	21.2	32.1	35.3	36.6	38.1	37.9	39.1	37.8	35	29	22	25
	Std. Deviation	3.3	2.7	3.0	2.7	3.3	2.7	2.9	4.0	2.9				
HM-25	Mean Value, dB	15.2	19.0	30.7	35.0	35.1	35.2	32.6	35.8	36.2	32	27	19	24
	Std. Deviation	2.0	2.4	2.5	2.7	2.8	1.6	2.2	2.7	3.5				
HM-60	Mean Value, dB	19.4	24.5	33.7	35.7	34.5	36.0	40.9	39.3	37.9	35	31	24	27
	Std. Deviation	3.2	2.3	2.8	3.0	2.3	1.7	2.8	2.5	3.4				
HM-80	Mean Value, dB	20.5	24.8	32.8	36.2	35.4	37.9	41.3	36.6	37.5	35	32	25	28
	Std. Deviation	2.6	1.6	2.2	2.9	2.2	2.9	3.0	2.4	2.8				

Tested to ANSI S3.10-1974



VB-10/20/30



BR-29/30/31/93



SA-29/30/31/93



QS-29

FaceGuard™

Heavy Duty Face Protection

Elvex proudly introduces an expanded and improved line of face protection products. Our product line is made up of standard headgear and visor brackets designed to accommodate the use of face shields on safety helmets, both with and without accessory slots.

Headgear

We offer a standard UltiMate™ headgear (HG-25) and a heavy duty headgear (HG-35). Both are equipped with ratchet adjustment and a soft fabric sweatband, and have five swivel locks. They can carry all Elvex face shields and screens, and many competitive models. Elvex Heavy Duty headgear offers a brow guard and is molded in heat tolerant nylon.

Visor Brackets

Elvex Visor Brackets (VB-10, VB-20 and VB-30) are designed to permit mounting of our full face shield program to most safety caps, and allows simultaneous use of cap mount ear muffs. There are four Visor Bracket models, with different configurations, designed to accommodate safety helmets with different beak lengths and angles (see reference on page 17). Our new VB-50 Visor Bracket is designed for high heat environments and for mounting to a safety helmet that lacks accessory slots.

Universal Fit

Elvex face shields have a universal hole pattern, and fit all Elvex headgear and Visor Brackets as well as many competitive headgear.

Face Shield Materials

Lexan (GE brand name), is a very impact resistant and heat tolerant material (up to 265°F), with limited scratch resistance. Lexan offers UV absorption characteristics (99% between 180-380 nm).

Polycarbonate is a material with similar properties to Lexan, described above.

Hard Coatings are used to provide improved chemical and abrasive resistance. Hard coatings can multiply the life expectancy of a face shield in some environments.

Anti-fog coating is available on select face shields, and may be required for some environments.

Please see fit chart for Visor Brackets to specific safety helmets on our website:
www.elvex.com/cap-mount-muffs.htm



FS-16PC on HG-25



FS-15PC on VB-30



FS-18L on VB-10

FaceGuard™

**HG-25 Ratchet headgear pictured
(from left) with:**

FS-12PC Molded Aspherical Polycarbonate
FS-12L Molded Aspherical Lexan
FS-12LG Molded Aspherical Green Lexan

All FS-12 shield dimensions: 12" X 8" X 0.07"

**HG-25 Ratchet headgear pictures
(from left) with:**

FS-15L Molded Lexan
FS-15LG Molded Green Lexan
FS-15WS5 Welding Shade 5
FS-15PC Molded Polycarbonate, not shown,
 looks like FS-15L
FS-15CL Hard-coated molded Lexan, not
 shown, looks like FS-15L

All FS-15 shield dimensions: 15.5" X 8" X 0.07"

**HG-25 Ratchet headgear pictured
(from left) with:**

FS-16PC Molded Aspherical Polycarbonate
FS-16PC-AF Molded Aspherical anti-fog coated
 Polycarbonate

All FS-16 shield dimensions: 16" X 8" X 0.07"

**HG-35 Ratchet headgear pictured
(from left) with:**

FS-18L Molded Lexan
FS-18LG Molded Green Lexan
FS-18CL Molded hard-coated Lexan, looks
 identical to FS-18L

All FS-18 shield dimensions: 18.5" X 10" X 0.075"



FACE PROTECTION

FaceGuard™

HG-25 Ratchet headgear pictured with:
FS-18L-CP Molded Lexan with chin protector

HG-35 Ratchet headgear pictured with:
FS-18GL Gold and hard coated Lexan shield. Heat resistance is approximately 1800 degrees F.

All FS-18 shield dimensions: 18.5" X 10" X 0.075"



HG-35 and HG-25 Ratchet headgear pictured (from left) with:

SV-15H Steel mesh visor for heat applications

SV-75 Steel visor for applications requiring air circulation



Elvex Visor Brackets pictured (from left) with:
FS-12L 12" wide Lexan shield
FS-15L 15.5" wide Lexan shield
FS-18L 18.5" wide Lexan shield

VB-10/20/30 accept all the face shield models shown above.



Left picture:

Elvex metal Visor Bracket, VB-50, shown on an MSA helmet, with a FS-15LG face shield.

Right picture:

HG-25 shown with our die cut commodity face shield, FS-15P



Elvex ARC-Shield™ Face Protection

What is an Arc Flash Hazard?

An arc flash hazard is a dangerous condition associated with the release of energy caused by an electric arc. This explosive condition includes a broad spectrum of electromagnetic energy, plasma, fragments and a spray of molten materials.

Who is exposed to Electric ARC Hazard?

Electrical workers, linesmen and electricians working with high voltage connections are sometimes exposed to the sudden release of energy that occurs during an electrical arc. This is a very dangerous condition, which can result in serious burns and death. It is now required that electrical workers use face protection meeting similar requirements. The National Fire Protection Association's standard NFPA 70E-2008 establishes Hazard or Risk categories, as shown in the table below. Elvex ARC-Shields are suitable for use in hazard/risk categories 1 and 2. The minimum Arc Thermal Performance Value (ATPV) has been established to be 5 cal/cm² and 8 cal/cm² for these two risk categories. (Cal/cm² stands for calories per square centimeter).

Key Benefits of Elvex ARC-Shield Solution

- Protection value (ATPV) for Elvex FS-18ARC10 is 10 cal/cm², and for FS-20ARC10 the ATPV is 12 cal/cm²
- Shields come with standard anti-fog coating
- Shields fit Elvex Visor Brackets (VB-10, VB-20 and VB-30) for mounting to safety caps
- Face and hearing protection can be used simultaneously on safety caps
- Elvex system can be adapted to most major brands of slotted safety caps

Complete Kits Available

CU-ARC-1 (10 cal)	Tectra cap, SC-50-6R	FS-18ARC10	Visor Bracket, VB-30	Slot Adapter, SA-30
CU-ARC-2 (10 cal)	Tectra cap, SC-50-6R	FS-18ARC10	Visor Bracket, VB-30	Cap mount muffs, HM-2030
CU-ARC-3 (12 cal)	Tectra cap, SC-50-6R	FS-20ARC10	Visor Bracket, VB-30	Slot Adapter, SA-30
CU-ARC-4 (12 cal)	Tectra cap, SC-50-6R	FS-20ARC10	Visor Bracket, VB-30	Cap mount muffs, HM-2030

Kit 1



Elvex ARC-Shield, FS-18ARC10, on Visor Bracket, VB-10, mounted with Slot Adapters, SA-93.

Kit 2



Elvex ARC-Shield, FS-18ARC10, on Visor Bracket, VB-30, and cap mount earmuffs, HM-2030.

Kit 3



Elvex ARC-Shield, FS-20ARC10, on Visor Bracket, VB-10, mounted with Slot Adapters, SA-30.

Hazard/Risk Category adapted from NFPA 70E-2000	Head and Face Protection adapted from NFPA 70E-2000	Minimum ATPV in cal/cm ²
0	Safety Glasses ARC Shield optional	N/A
1	Safety Glasses, ARC Shield Safety Helmet	5
2	Safety Glasses, ARC Shield Safety Helmet	8
2*	Safety Glasses, Switch Hood Safety Helmet	8

Tectra™ Safety Caps

Elvex proudly introduces a new advanced safety helmet that challenges the traditional appearance and functionality of safety caps. A quick summary of design elements and features:

- A striking contemporary design
- A lightweight Polypropylene shell
- Four head hugging suspensions
- Vented and non vented versions
- Non conductive and general versions
- Hidden suspension hangers
- Rain trough for water disbursement
- Contour at ears to accommodate hearing protection
- Accessory slot (30 mm)

Striking Design

Safety helmet appearance has not changed much in the last 50 years. Over the last several years some futuristic designs have appeared, but they have been too radical to create much of a following in the market place. We think that we have struck a good balance between a traditional shape and a modern and appealing design with the new Elvex Tectra safety helmet.

Suspensions

The most important aspect of a safety helmet suspension is that it holds the helmet securely on the head. The head hugging suspensions of the Tectra helmet have a low center of gravity than what is offered on other safety helmets. This feature results in a very secure feeling of a helmet that stays on the head. Four different suspensions are offered: four and six point ratchet suspensions and four and six point pin-lock suspensions. All suspensions have three height adjustments.

Vented and non-vented

The Tectra helmet is available in vented and non vented versions. The vented version has eight ventilation holes at the crown of the helmet. On the non vented version the ventilation holes are permanently closed, and look like cosmetic decorations. Ventilated helmets cannot meet Class E (electrical) requirement of ANSI Z89.1-2009.



Types and Classes

Tectra is a Type I helmet, meaning that it is designed to provide protection from impacts to the top of the head. There are three classes of helmets: Class E (electrical) is rated 20,000 Volts, Class G (general) is tested to 2,200 Volts, and Class C (conductive) are not intended to provide protection against electrical hazards.

Standards Compliance

The Tectra helmet complies with ANSI Z89.1-2009 requirements for a Type I helmet. The non vented version complies with Class E, G and C, and the vented version complies with Class C. Certification to CE EN 397 is pending.

Designed for accessories

The Tectra helmet is designed to work with accessories and comes with a standard 30 mm slot. It works with Elvex hearing protection and face protection. Use any of our four cap mount muff models, with suffix 29 or 30, such as HM-6029 or HM-6030. Use visor bracket model VB-30, in combination with any of 20 different face shields and wire mesh visors.

Available colors

Tectra helmet is available in the following colors: white, yellow, orange, red, blue and silver graphite. Vented version will initially be available only in white and orange color.

Non conductive model selection:

SC-50-4P	Four point pin-lock suspension
SC-50-6P	Six point pin-lock suspension
SC-50-4R	Four point ratchet suspension
SC-50-6R	Six point ratchet suspension

Vented model selection:

SC-50V-4P	Four point pin-lock suspension
SC-50V-6P	Six point pin-lock suspension
SC-50V-4R	Four point ratchet suspension
SC-50V-6R	Six point ratchet suspension



Pictured Left to Right:

- Six point, ratchet
- Six point, pin-lock



Pictured Left to Right:

- Four point, ratchet
- Four point, pin-lock



ProGuard™, Loggers Safety Caps

All Elvex ProGuard™ systems are available in dielectric as well as ventilated models. The dielectric models should be used where the user may come in contact with electrical lines. The ventilated models may be used in outdoor situations where no electrical hazards exist. Dielectric models have a nylon screen face shield (NV-70), while the ventilated models have a steel mesh face shield (SV-70).

Elvex ProGuard Loggers Safety Cap is a uniquely integrated system, which provides protection for head, face and hearing in a workable and practical solution. Both the hearing and face protection can be conveniently flipped up and out of the way.

ProGuard™, CU-25, our Economy Unit

This is our most economical logger's safety helmet, and it is based on an orange six point pin-lock suspension safety cap (SC-50-6P), medium profile ear muffs (HM-2530) with 24 dB NRR, our Visor bracket (VB-30).

ProGuard, Dielectric model: CU-25

ProGuard, Ventilated model: CU-25-V

ProGuard™, CU-30R, for the Pro

This system has been the professional's choice for many years. An orange six point ratchet suspension safety cap, with nylon webbing (SC-50-6R), that gives an extremely secure fit and balance, is appreciated by the full time user. A black low profile ear muff (HM-2030) with 25 dB NRR gives an aesthetically pleasing contrast to the orange safety cap. This safety helmet comes with Visor Bracket (VB-30).

ProGuard, Dielectric model: CU-30R

ProGuard, Ventilated model: CU-30R-V

ProGuard™, CU-30L

This system has the same specifications as CU-30R, but is equipped with a Lexan face shield (FS-12L). This face shield offers impact resistance, and is intended for power tools that may send high velocity objects flying in the direction of the operator.

ProGuard, Dielectric model: CU-30L

ProGuard, Ventilated model: CU-30L-V

ProGuard™, CU-60R, Top of the Line

Our top of the line ProGuard System comes equipped with a six point ratchet suspension safety helmet (SC-50-6R). This model is equipped with Elvex heavy duty cap-mount ear muffs (HM-6030), which provide a Noise Reduction Rating of 27 dB, and Visor Bracket (VB-30).

ProGuard, Dielectric model: CU-60R

ProGuard, Ventilated model: CU-60R-V



CU-25



CU-30R



CU-60R

Safety Warning

The steel screen visor (SV-70) complies with ANSI Z87, but does not provide high velocity protection. The nylon visor (NV-70) is a convenience shield and does not comply with ANSI Z87. For high velocity protection, choose a Polycarbonate face shield, i.e. model CU-30L, which meets high velocity requirements. ANSI Z87 requires separate eye protection, suitable for the situation, in addition to any face shield.

OSHA Standards and Regulations

Logging, farming and work environments such as grounds maintenance that require the use of chain saws and other power equipment tools are among the occupations with the highest incidents of occupational injuries. Not only is the incidence rate high in these industries, but the severity of the accidents that occur are often very dramatic. The U.S. Consumer Products Safety Commission reported over 42,800 chain saw injuries to both professionals and amateurs during 1994.

OSHA's Logging Operation Safety Rule (29 CFR 1910.266) became effective on February 9, 1995. The logging Rule covers all aspects of logging: work rules and procedures, equipment and equipment maintenance, training, record keeping, safe work practices and the mandatory use of safety equipment. The ruling makes the employer responsible for providing the safety equipment and enforcing its use. The logging standard specifically requires the use of the following equipment by chain saw operators: gloves, boots, leg protection, safety caps, hearing, eye and face protection and first aid kits. All this equipment (except boots) shall be provided by the employer at no cost to the employee.

New 2008 ASTM Leg Protection Standard

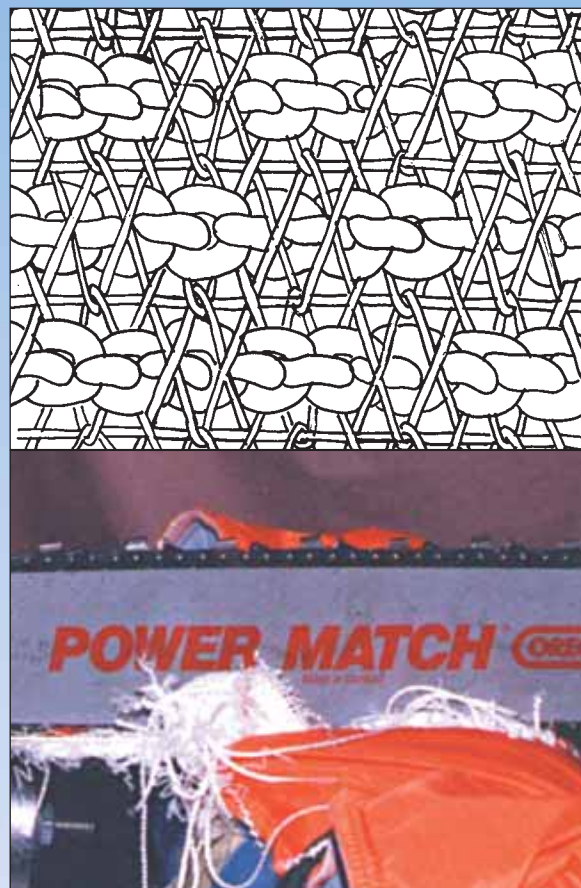
In 2008 new regulations governing test standards for Chainsaw Leg Protective Clothing have been enacted. This revision to ASTM F-1897-2008 increases the performance requirement for chainsaw test speed, to 2750 fpm (from 2500 fpm). Elvex's R&D program to meet higher chainsaw speed requirement, began years ago; with the objective to increase cut resistance, while providing comfort, and limiting excess weight. Through earlier experience with commercial products, we had already established a performance threshold exceeding 2500 fpm. Now with ASTM's standard change to 2750 fpm, Elvex's design is fully developed, tested, and proven to increase cut resistance for chains operating at the higher contact speed. The result is a new generation Elvex ProChaps tested by Underwriter's Laboratories in accordance with ASTM F-1414, Measurement of Cut Resistance to Chain Saw Lower Body Protective Clothing.

Prolar™

Prolar™ Protective Pads

Prolar is Elvex brand name for our exclusive chain saw protective pad development. Prolar is not a static product, but is going through continuous development, in order to improve the compromise between comfort and performance. The Prolar protective pads combine a unique fibre composition with special weaving to create one of the most effective chain saw protective pads on the market. The unique "explosive" action of Prolar works by jamming the chain against the bar and the sprocket. Prolar combines light weight and flexibility for superior user acceptance with highly effective protection.

Elvex Prolar pads have been tested in accordance with the APA and ASTM Standards, by Underwriters Laboratories. The Prolar pads have passed the performance requirements, including the 2,750 feet per minute chain stopping capability. This test establishes a pass or fail and does not establish maximum performance.



CHAIN SAW PROTECTION

ProVest™

Elvex ProVest™

Elvex ProVest is the first genuine chain saw resistant upper body protection. It is intended to offer limited protection from chain saw kick back injuries. Arborists, landscapers and utility company employees are the potential beneficiaries of this protection.

- The upper body protection concept has been patented, U.S. Pat. # 5,101,511.
- Polar protection is provided on the shoulders and the front of the chest. The water resistant sleeveless jacket has extended shoulders and large front and back vents. A longer back panel helps repel water and debris.
- An inside zippered pocket is provided.
- High visibility orange top and blue bottom makes an attractive looking product. The vest is made from 420 denier Nylon.

Available in Medium, Large and Extra Large: JE-50M (38"-40"), JE-50L (42"-44"), JE-50XL (46"-48"), JE-50XXL (50"-52").

ProChaps™

90 Series ProChaps™

Elvex best selling chap model has sold in hundreds of thousands. A long list of unique standard features explains the popularity of this design.

- Patented asymmetric design provides extended protection on the left side of each leg, where most injuries occur (US Pat. #5,095,544).
- The 90 series chaps conform to ASTM requirements as well as APA Class A requirements.
- Lightweight, flexible and strong 420 denier Nylon cover fabric.
- Easy on, easy off apron-style design.
- Quick release buckles for waist and legs.
- A zippered front pocket is a standard feature not found on other brands.

Available in safety orange color in four lengths: JE-9028, JE-9033, JE-9036 and JE-9039. The last two digits of the product number indicate the length in inches, waist to bottom, not the inseam.

94 Series ProChaps™

Elvex 94 Series ProChaps, are designed for the professional chain saw user. In addition to meeting the requirements of the ASTM Standard, Elvex 94 Series chap maintains the quality and features, which have made the Elvex brand name famous.

- Lightweight Polar protective pads add comfort and prevent heat buildup.
- Patented asymmetric design
- 1,000 denier Cordura Nylon cover fabric, which is more abrasive resistant.
- Three sets of leg straps and buckles help the stiffer cover fabric conform comfortably to the legs.
- A zippered front pocket is standard.

Elvex 94 Series ProChaps are available in orange safety color in 28, 33, 36 and 39 inches lengths, model numbers JE-9428, JE-9433, JE-9436 and JE-9439. The last two digits of the product number indicate the length in inches, waist to bottom.



ProChaps™

91 Series ProChaps™ with Calf Protection

Certain work conditions may require extra precaution, with regards to lower leg protection. Elvex ProChaps with wrap around calf protection, provide the solution for these situations.

- This model maintains all basic features of Elvex 94 series chaps, while it also maximizes lower leg protection.
- The outer shell is made of 1,000 Denier Cordura nylon, designed for durability even in severe environments.
- Each leg is secured by a total of three sets of buckles. The wrap-around section, below knees, is secured by two sets of buckles.

Available in three sizes: JE-9133, JE-9136 and JE-9139. The last two digits describe the total length of the garment, from waist to bottom.

ArborChaps™ One-size-fits-all

Users have long asked us to provide a lower cost chap, and the trade has frequently requested a universal size chap to help control their inventory. The ArborChap may just be the answer to these requests, since it addresses both of these concerns. We stripped the ArborChap of some features such as the zippered pocket, but we maintained all the safety features that really count.



- Patented asymmetric design for better protection where most injuries occur.
- Elvex famous Prolar protective pads, no compromise on safety.
- Universal size, three sets of belt loops allow length adjustment from 33 to 36 inches.
- Easy on, easy off apron style design, with two sets of leg straps and buckles.
- Hunter green 420 denier Nylon cover fabric, with attractive black Nylon edging.

Available in one universal size only: JE-8000, Elvex ArborChaps





Performance and Testing

Much is expected of safety spectacles in the 21st century. Not only do we expect impact resistance, great optics, lightweight and futuristic styling, but we also expect to pay only a few dollars for the latest and trendiest pair of safety glasses.

Complying with the performance requirements of existing standards is just the beginning. Today's safety glasses are about 10 to 20 times stronger than the safety glasses that were an industry standard just over a decade ago.

Elvex safety glasses comply with ANSI Z87.1-2010 and most models meet the requirements of CE - EN166. Required tests include among others high velocity, high mass impact, lens thickness, lens distortion and lens light transmission.

Lens Technology

Polycarbonate lenses provide some inherent features, and other features can be added to the Polycarbonate through the molding process or coated onto the Polycarbonate after the part is finished.

- **Impact resistance:** all Elvex safety glasses meet the high velocity impact requirements of ANSI Z87.1-2010.
- **UV-protection** (99.9%) between 180 and 380nm is provided by our Polycarbonate (Lexan) lenses.
- **High UV and Blue Light** protective characteristics come from special absorbers added during the lens molding process.
- **Elvex NCB™ gray lenses** (Natural Color Balance) are made with special absorbers added during the molding process. NCB lenses provide UV, Blue Light and Infrared protection (see chart above).
- **Shade 2 to 5 ANSI welding lenses** have absorbers for the undesirable wavelengths and intensity of UV, Visible and IR light, experienced when gas welding.
- **A scratch resistant hard coating** is added to all Elvex safety glasses except model SG-10.
- **Elvex SuperCoat™** treatment provides a lens that is anti-fog, anti-scratch, anti-static as well as UV-protective.
- **The Indoor/Outdoor lens** has additional UV absorbers and a light gold mirror coating, in order to reduce glare and Visible Light Transmission. This lens is a compromise for individuals moving from bright to dark environments.
- All lenses and coatings are not available in all frame styles.

Lens Light Transmission Chart

Lens Description	UV Light Protection 180-380nm	High UV Protection 380-400nm	Blue Light Protection 400-480nm	Infra Red Protection 780-1100nm	Visible Light Transmission (VLT)
Clear hard-coated PC lens	99.9%	84%	15%	8%	91%
Amber hard-coated PC lens	99.9%	99.9%	83%	14%	85%
Ice Blue hard-coated PC lens	99.9%	86%	81%	14%	66%
Indoor/Outdoor PC lens	100%	100%	66%	28%	50%
Light brown hard -coated PC lens	99.9%	97%	72%	40%	45%
Brown hard -coated PC lens	99.9%	98%	90%	32%	19%
Gray NCB hard-coated PC lens	99.9%	79%	82%	56%	18%
Silver mirror PC lens	99.9%	95%	87%	61%	16%
Blue flash mirror PC lens	99.9%	99.8%	85%	60%	20%
Gold flash mirror PC lens	99.9%	98%	85%	60%	13%
Polarized gray PC lens	100%	100%	90%	15%	11%
Welding Shade 2 PC lens	100%	99.9%	98%	97%	29%
Welding Shade 3 PC lens	100%	99.9%	99.6%	99.9%	13%
Welding Shade 5 PC lens	100%	100%	99.9%	99.9%	1.9%

RX-100

The First Mono-lens Safety Reading Glasses!

Elvex RX-100 is the first bifocal safety glass with a dual curvature mono-lens and integrated side shields.

- Available in the following bifocal powers: 1.0, 1.5, 2.0, 2.5 and 3.0
- Temples adjust to four different lengths
- Temples have angle adjustment for perfect fit
- Industrial buyers report cost savings exceeding \$100.00 per user with RX-100
- Tested to ANSI Z87.1-2010 (Z87+), CE-EN-166, AS/NZS 1337:1992
- RX-100 is also available with gray lenses. To order, specify model number as above, followed by the letter G. Example: RX-100G-2.0

BIFOCAL



RX-200

Bifocal Safety Glasses

Elvex RX-200, is our second generation of bifocal safety glasses, and we have combined the requirement for bifocal lenses with the desire for stylish, lightweight and comfortable glasses. RX-200 uses two base six lenses, in a contemporary wrap frame. This allows for both a stylish and protective product. The frame is made from transparent gray Polycarbonate and has a soft rubber nose bridge and rubber tipped temples.

- Available in the following bifocal powers: 1.0, 1.5, 2.0, 2.5 and 3.0
- Complies with ANSI Z87.1-2010 (Z87+)
- Lightweight wrap style frame
- Soft rubber nose bridge and temple tips
- RX-200 is also available with gray lenses. Specify gray lens when ordering
- Also available as a plano safety glass, See page 34.

BIFOCAL



RX-300

BIFOCAL

Bifocal Wraps

Bifocal safety glasses have become a big market, and users are asking for more choices in frame styles. Elvex is responding with our third generation bifocal safety glasses. The RX-300 has a contemporary design and modern flair, but the wraparound lens offers a close fit and comfortable protection. A unique rubber nose bridge and soft rubber tipped temples make this frame style one of our most versatile.

- RX-300 is available in clear and gray lens versions and five bifocal strengths: 1.0, 1.5, 2.0, 2.5 and 3.0. Please specify lens color and bifocal strength when ordering
- Complies with ANSI Z87.1-2010 (Z87+)
- Stylish design and comfortable to wear
- Soft rubber nose bridge and temple inserts



RX-350

**NEW
BIFOCAL**

Bifocal Wraps

Sonoma™ is our fifth generation Bifocal Safety Glasses. This model adds a new level of style and design, and is available both as a standard safety glass and as a safety reader. It seems to fit a great variety of facial configurations very well.

- RX-350 is available in clear and brown lens versions and five bifocal strengths: 1.0, 1.5, 2.0, 2.5 and 3.0. Please specify lens color and bifocal strength when ordering.
- Frames are in skin tone golden brown
- Complies with ANSI Z87.1 (Z87+).
- Great style and comfortable to wear
- Exceptional coverage and protection
- Soft rubber nose bridge and temple inserts
- Also available as a Plano safety glass (w/o bifocal segments), SG-350, See page 34



RX-400

BIFOCAL

Stylish Economy Bifocal

In order to offer a full line of bifocal safety glasses, Elvex is adding a light weight and stylish new model. The new RX-400 offers all the performance and features of a bifocal glass in a less expensive and lighter weight form.

- RX-400 is available in clear and gray sun shade lens versions and in the following bifocal powers: 1.0, 1.5, 2.0, 2.5 and 3.0
- Please specify lens version and bifocal power when ordering.
- Complies with ANSI Z87.1-2010 (Z87+) and CE EN-166
- Stylish and lightweight frame, with straight rubber tipped temples
- A comfortable rubber nose bridge makes long term use comfortable



Atom™

Sleek, Comfortable and Economical!

Atom stands for simplicity and this safety glass is the plano version of our RX-400 design. This stylish model is light weight and fits against the nose and ears with soft rubber pads. Cool, colored temples add flair.

- Available in the following lens versions: clear, clear anti-fog, blue, indoor/outdoor, gray and silver mirror
- Polycarbonate lenses offer great coverage and 99% UV protection
- Soft rubber nose bridge and temple tips
- Very economical pricing!
- Complies with ANSI Z87.1-2010 (Z87+) and CE EN-166

SG-400C	Clear hard-coated Polycarbonate lens
SG-400C-AF	Clear anti-fog coated Polycarbonate lens
SG-400B	Ice Blue, hard-coated PC lens
SG-400 I/O	Indoor/Outdoor hard-coated Polycarbonate lens
SG-400G	NCB Gray, hard-coated Polycarbonate lens
SG-400M	Silver mirror, hard-coated Polycarbonate lens



Great style and sophisticated design!

The new Sonoma safety glass model is one of the best looking models in our product line. It fits a great variety of facial configurations very well.

- Sophisticated design and great style!
- Skin tone frame colors, including tortoise finish
- Clear, light brown, brown and gold mirror lens options, for different work environments.
- Light brown lens provides 50% VLT (visible light transmission), is an alternative to indoor/outdoor lens, but with less glare.
- The brown lens provides the same light attenuation (18-20% VLT) as our standard gray lens.
- Complies with ANSI Z87.1 (Z87+).
- Also available as a bifocal model (RX-350)!

SG-350C	Clear hard coated Polycarbonate lenses, glossy golden brown frame.
SG-350LB	Light brown hard coated Polycarbonate lenses, glossy golden brown frame.
SG-350BR	Brown (18% visible light transmission) hard coated PC lenses, tortoise frame.
SG-350M	Gold mirror (non flash) coated Polycarbonate lens, tortoise frame.
SG-350PL	NEW , Gray Polarized PC lens.



For the Style Conscious

The frame designed for our bifocal safety glasses was so well liked by our test subjects that we decided to also offer it as a standard safety glass. Styling aside, this frame offers a soft rubber nose bridge as well as rubber tipped temples. Tested to ANSI Z87.1-2010 (Z87+).

SG-200C-gray	Clear hard-coated Polycarbonate lens, transparent gray frame
SG-200C-blue	Clear hard-coated Polycarbonate lens, transparent blue frame
SG-200 I/O	Indoor/Outdoor hard-coated Polycarbonate lens, transparent gray frame
SG-200G	Gray hard-coated Polycarbonate lens, black frame with yellow accents



XTS™

NEW Generation Alien Style

XTS stands for Extraterrestrial and it pretty much explains the style. Our updated design has better fit, better looks and better coverage, more lens and frame color choices. XTS was one of our best selling models, even before these upgrades.

- Available in nine different lens versions: clear, clear anti-fog, ice blue, indoor/outdoor, gray, gray anti-fog, silver mirror, infrared and polarized
- All lenses provide 99% against UV-A, UV-B and UV-C, in wavelength range 180-380 nm
- Ballistic Vo rated
- Anti-slip rubber temple tips and nose bridge for added comfort.
- Complies with ANSI Z87.1-2010 (+) and CE EN-166, except as stated

SG-24C	Clear, hard coated PC lens with UV protection
SG-24C-AF	Anti-fog coated clear PC lenses
SG-24B	Ice blue hard coated PC lenses
SG-24 I/O	Indoor/Outdoor, hard coated PC lenses
SG-24G	NCB gray, hard coated PC lenses
SG-24G-AF	Anti-fog coated NCB gray PC lenses
SG-24M	Silver mirror, hard coated PC lenses
SG-24IR2	Infrared protection in a Shade 2 welding lenses (not CE)
SG-24PL	Gray Polarized PC lens, three lens laminate (not CE)

Avion™

A Unisex Favorite!

The workplace is full of glasses that are designed for men. Elvex Avion glasses are designed to fit smaller female facial configurations, and this model actually fit most males as well. It looks good and it fits like a glove!

- Available in five lens versions
- Ballistic Vo rated
- Mono-lens construction, with wraparound lens
- Colorful rubber tipped temples and a soft rubber nose bridge
- All lenses provide 99% UV protection
- Complies with ANSI Z87.1-2010 (+) and CE-EN-166

SG-18C	Clear hard coated Polycarbonate lens
SG-18C-AF	Clear SuperCoat™ anti-fog PC lens
SG-18A	Amber hard coated PC lens
SG-18 I/O	Indoor/Outdoor hard coated PC lens
SG-18G	NCB (natural color balance) gray hard coated PC lens



Ballistic Vo Rated



Ballistic Vo Rated



A Unique Reincarnation

Now and then a really unique frame style is developed. The new generation of Acer offers all the features that users are looking for in a stylish safety glass. Acer has a sophisticated and "classy" look and feel.

- Full coverage lens, with a floating design
- Soft rubber nose bridge
- Ballistic Vo rated
- Meets ANSI Z87+ and complies with CE, EN-166 requirements
- Available in seven different lens versions

SG-12C	Clear hard-coated polycarbonate lens
SG-12C-AF	Clear Supercoat™ anti-fog lens
SG-12A	Amber hard-coated PC lens
SG-12 I/O	Indoor/Outdoor hard-coated PC lens
SG-12G	NCB gray hard-coated Polycarbonate lens
SG-12G-AF	NCB gray Supercoat™ anti-fog lens
SG-12M	Silver mirror hard-coated Polycarbonate lens



Ballistic Vo Rated



Cooler Style Yet

Some people want to be really cool, and some need help to be cool. Now Elvex has a safety glass style that will not interfere with your ability to be cool at work or play. Orbit is both hot and cool at the same time, and we are not talking about temperature!

- Cool wrap design with straight temples
- Straight rubber tipped temples
- Tinted lens version have a shiny silver frame
- Complies with ANSI Z87.1-2010 (Z87+) and CE EN-166
- Available in four lens versions

SG-36C	Clear hard-coated Polycarbonate lens, graphite frame
SG-36 I/O	Indoor/Outdoor hard-coated Polycarbonate lens
SG-36G	NCB gray hard-coated PC lens
SG-36M	Cool blue mirror hard-coated Polycarbonate lens



Innovative solutions. Always a step ahead.



High Style Combined With Low Cost

Today's buyers demand style, comfort and economical pricing. The Trix safety glasses meet this bill and provide style at a very affordable price.

- Available in the following lenses: clear, clear anti-fog, gray, indoor/outdoor and silver mirror
- All lenses provide 99% UV protection
- Ballistic Vo rated
- Complies with ANSI Z87.1-2010 (Z87+) and CE EN-166

SG-17C Clear hard-coated Polycarbonate lens

SG-17C-AF Clear Supercoat™ anti-fog Polycarbonate lens

SG-17G NCB gray hard-coated Polycarbonate lens

SG-17 I/O Indoor/Outdoor hard-coated Polycarbonate lens

SG-17M Silver mirror hard-coated Polycarbonate lens



Ballistic Vo Rated



Universal Fit, Smart Design

Sync is a uni-sex safety glass, which fits well on both men and women. The lens has a built-in brow guard, and the transparent temples are color coordinated with the temple connectors. All lenses provide 99% UV protection. This model is tested to ANSI Z87.1-2010, and CE EN-166. In addition this model is Ballistic Vo rated.

Available in the following lens versions:

SG-19C Clear hard coated PC lens, blue temples

SG-19C-AF Clear anti-fog PC lens, pink temples

SG-19 I/O Ice blue indoor/outdoor lens, 50% VLT

SG-19BR Brown hard coated PC lens, tortoise temples

SG-19M Gold mirror PC lens, tortoise temples



Ballistic Vo Rated



Xenon™

ULTRA-LIGHT
0.8 OZ

Lightweight Comfort & Style

Elvex Xenon is our most lightweight safety glass, and since it is also quite stylish and comfortable, we know that we have a winner on our hands. In addition to its good looks Xenon offers a soft rubber nose bridge and colorful rubber inserts on the temples.

Tested to ANSI Z87.1-2010 (Z87+) and CE EN-166.

SG-14C	Clear hard-coated Polycarbonate lens
SG-14C-AF	Clear Supercoat™ anti-fog PC lens
SG-14A	NEW , Amber hard-coated PC lens
SG-14B	Ice Blue hard-coated PC lens
SG-14 I/O	Indoor/Outdoor hard-coated Polycarbonate lens
SG-14G	Gray hard-coated Polycarbonate lens
SG-14G-AF	NCB gray Supercoat™ anti-fog lens
SG-14M	Flash mirror, hard-coated PC lens



TNT™

ULTRA-LIGHT
0.85 OZ

A Dynamite Safety Glass

Two factors are driving the development of new safety glass models. Styles have to be cool and contemporary and prices have to be lower for every new generation. And all this has to be accomplished without sacrificing any of the protective properties of the product. This challenge sounds pretty difficult, if not impossible!

Elvex new TNT (Trinitrotoluene stands for Dynamite) has met this challenge! It is our lowest price safety glass, and it offers style and comfort without any compromises in safety.

TNT Complies with ANSI Z87.1-2010 (Z87+) and CE EN-166.

SG-13C	Clear hard-coated Polycarbonate lens
SG-13C-AF	Clear anti-fog hard-coated PC lens
SG-13B	Ice Blue hard-coated Polycarbonate lens
SG-13 I/O	Indoor/Outdoor hard-coated PC lens
SG-13G	NCB gray hard-coated Polycarbonate lens
SG-13M	Flash mirror, hard-coated PC lens



ELVEX®

Innovative solutions. Always a step ahead.

Fashion Safety Glasses for Women

Now women can look as good at work as when they go shopping, or to the beach! These oversized glasses are in line with current design trends for fashion women's eyewear. The frame is available in tortoise brown, black and transparent blue, and is offered with clear, light brown, sun shade brown and gray lenses. These glasses comply with ANSI Z87+ high velocity requirements, and also meet the ballistic impact Vo requirement.

- SG-42C** Clear hard coated Polycarbonate lens, light blue frame
- SG-42LB** Light brown hard coated Polycarbonate lens, light tortoise frame
- SG-42BR** Brown hard coated Polycarbonate lens, tortoise frame
- SG-42G** NCBT (natural color balance) gray hard coated Polycarbonate lens, glossy black frame



Ballistic Vo Rated

SphereX™

Extreme Wrap Safety Glasses

This is one of the boldest safety glass designs to hit the market. Sphere-X offers a unique combination of style, coverage and protection. Dual lens construction (9.75 base curve) allows for excellent optics and extreme coverage.

- Available in the following lenses: clear, clear anti-fog, amber, gray, gray anti-fog, indoor/outdoor, silver mirror
- All lenses provide 99% UV protection
- Temples adjust to four different lengths
- Dual lens construction allows best possible peripheral vision
- Universal non-slip nose bridge provides secure fit
- Complies with ANSI Z87.1-2010 (Z87+) and CE EN-166

- SG-32C** Clear hard-coated Polycarbonate lens
- SG-32C-AF** Clear Supercoat™ anti-fog lens
- SG-32A** Amber hard-coated Polycarbonate lens
- SG-32G** NCB gray hard-coated Polycarbonate lens
- SG-32G-AF** NCB gray Supercoat™ anti-fog lens
- SG-32 I/O** Indoor/Outdoor hard-coated PC lens
- SG-32M** Silver mirror, hard-coated PC lens



UniWraps™

This is a ballistic rated safety glass. UniWraps has temples that adjust in angle and length. An improved nose bridge makes this glass very comfortable to wear. Elvex UniWraps complies with ANSI Z87.1-2003 (Z87+) and CE EN-166.

- SG-20C** Clear, hard-coated PC lens
- SG-20A** Amber, hard-coated PC lens
- SG-20G** NCB gray, hard-coated PC lens
- SG-20-Kit1** SG-20C with spare amber and gray lenses, case and lens bags
- SG-20-Kit4** |SG-20C with spare gray lens, case and lens bag



Ballistic Vo Rated

Summit™

Sports styled safety glasses with wraparound coverage. Adjustable and stylish rubber temples help provide a universally comfortable fit. Meets ANSI Z87.1 and CE EN-166.

- SG-28C** Clear, hard-coated Polycarbonate lens
- SG-28C-AF** Clear Supercoat™ anti-fog lens (NEW)
- SG-28 I/O** Indoor/Outdoor, hard-coated PC lens
- SG-28G** NCB gray, hard-coated Polycarbonate lens
- SG-28M** Silver mirror, hard-coated PC lens



Challenger™

This safety glass design has long been the best selling commodity style, and it has met with worldwide acceptance. This model has adjustable temples and universal nose bridge. Meets ANSI Z97.1 and CE EN-166.

- SG-25C** Clear hard coated Polycarbonate lens
- SG-25G** NCB gray hard coated Polycarbonate lens
- SG-25C-AF** Clear SuperCoat anti-fog PC lens
- SG-25W3** Welding shade 3 ANSI, Green PC lens
- SG-25W5** Welding shade 5 ANSI, Green PC lens



Specify frame color: All-American or Black!
Welding frame color: Black frame only!

Ranger™

Functional safety glasses never go out of style. The design incorporates side shields and brow protection. Lenses are made from uncoated polycarbonate. Meets ANSI Z87.1 and CE EN-166.

- SG-10C** Ranger, Clear Polycarbonate Lens.
- SG-10A** Ranger, Amber/Yellow PC Lens.
- SG-10G** Ranger, Gray (NCB) Natural Color Balance Polycarbonate Lens.



Innovative solutions. Always a step ahead.

OVR-Specs™

Cover Spectacles

OVR-Specs are designed to fit over prescription glasses. Elvex now offers two distinctly different styles. A common feature is that the front lens curvature must be relatively flat (a low base curve) in order to provide a good fit and minimize reflections. The original OVR-Spec (SG-27) offers angle and length adjustable temples, and fit over very large glasses. The new OVR-Spec (SG-37) is a more contemporary design and with built in side windows, and rubber temples. This model fits over medium sized glasses up to 5 3/4 inch (145 mm) wide.

OVR-Specs meet ANSI Z87.1-2003 (Z87+) and CE EN-166 requirements.

- SG-27C** OVR-Spectacles with clear hard-coated Polycarbonate lens.
- SG-37C** OVR-Spec-II with clear hard coated PC lens
- SG-37G** OVR-Spec II with gray hard coated NCB PC lens



TTS™

Truly Terrestrial Spectacle!

TTS offers sleek styling, likely to impress today's fashion oriented workers. The close fit and excellent protective features will please employers. TTs Is now also available in a foam lined model for improved protection against dust. Elvex TTS meets the requirements of ANSI Z87.1-2010 (Z87+) and CE EN-166.

- SG-15C** Clear hard-coated PC lens with UV protection
- SG-15C-small** Clear hard-coated PC lens with UV protection
- SG-15C-AF** Clear SuperCoat, anti-fog, PC lens
- SG-15A** Amber hard-coated PC lens with UV and blue light protection
- SG-15 I/O** Indoor/Outdoor hard-coated PC lens
- SG-15G** NCB gray hard-coated PC lens with UV and blue light protection
- SG-15M** Blue mirror hard-coated PC lens
- GG-15C-AF** Go-Specs III Clear foam-lined anti-fog coated PC lens (not CE)
- GG-15G-AF** Go-Specs III Gray foam-lined anti-fog coated PC lens (not CE)



Go-Specs™, Almost a goggle!

Elvex Go-Specs™ primary objective is to provide an extra measure of protection in dusty and dirty environments. Wind blown particles such as dust, sand, cement, chemicals can cause serious eye irritation and damage. In addition to this specialized task, Go-Specs offers a full range of features and benefits:

- Impact resistant molded lens with SuperCoat™ anti-fog coating
- 1.8 mm thick Polycarbonate lens with a base 6 curvature
- Soft and flexible foam seal
- Angle adjustable temples
- 99% UV protection for UV A, B and C, 180-380 nm.
- Complies with ANSI Z87.1-2003 (+)
- High velocity impact resistant

GG-40C-AF Go-Specs with clear anti-fog coated lens

GG-40G-AF Go-Specs with gray anti-fog coated lens



Go-Specs II™

NEW
PRODUCT

A Hybrid Safety Glass

Elvex Go-Specs II™ primary objective is to provide an extra measure of protection in dusty and dirty environments. Wind blown particles such as dust, sand, cement, chemicals can cause serious eye irritation and damage. In addition to this specialized task, Go-Specs II offers a full range of features and benefits:

- EVA closed cell foam seal for better fit.
- Automatic swivel adjustment of strap angle
- Ballistic impact resistant molded lens.
- SuperCoat™ anti-fog coating.
- 2.3 mm thick Polycarbonate lens with a base 9.5 curvature
- 99% UV protection for UV A, B and C, 180-380 nm.
- Tested to ANSI Z87 (+) and CE EN-166

GG-45C-AF Go-Specs II with clear anti-fog coated lens

GG-45G-AF Go-Specs II with gray anti-fog coated lens



High Performance Goggles

Visionaire is Elvex premium high performance goggle. It is now available in several different versions for specialized requirements.

- Elvex Visionaire goggles offer a molded Polycarbonate lens or dual lens, all with inside anti-fog treatment
- Frame is equipped with four indirect ventilation slots for further fog resistance
- Superior comfort, wide contact points between goggle and face for great comfort
- Dust/mist rating to ANSI Z87.1-2010 is D3 D4.
- Visionaire complies with ANSI Z87+ and CE EN-166.
- Replacement lenses available

- GG-30-AF** Splash/Impact goggle with elastic strap
GG-30G-AF Splash/Impact goggle with light gray lens
GG-35-AF Splash/Impact goggle with dual lens for superior anti-fog properties (not CE)



Legionnaire™

Impact and Splash Goggles

Elvex Legionnaire™ goggles for impact and splash applications, is our product entry into the more economical goggle market segment.

- Impact resistant molded lens with SuperCoat™ anti-fog coating
- 2.0 mm thick Polycarbonate lens with a base 3.5 curvature
- Eighteen (18) built in, indirect ventilation slots for superior fog resistance
- Wide contact between goggle and face provides for a very comfortable fit.
- This goggle fits over prescription glasses, with room to spare!
- Goggle, GG-25, complies with ANSI Z87+ and CE EN-166 requirements
- Micro fiber storage bag sold separately: SGB-30

- GG-25C-AF Smoke** Clear anti-fog lens, smoke body
GG-25C-AF-AS Clear anti-fog lens, wide strap, smoke body
SGB-30 Protective micro-fiber bag, with draw string (sold separately)



Exclusive design!

With the Axiom glasses we are not trying to offer one of the least expensive safety glasses, but we are instead trying to add value added features.

- Exclusive design and construction
- Colorful frame choices
- Dual injection temples
- Auto-adjust nose bridge
- Complies with ANSI Z87.1-2010 (Z-87+)

SG-38C	Clear hard coated PC lens, graphite frame with light gray trim
SG-38A	Amber hard coated PC lens, black frame with yellow trim
SG-38 I/O	Indoor/Outdoor lens, graphite frame with light gray trim
SG-38G	Gray hard coated PC lens, black frame with red trim
SG-38M	Silver mirror PC lens, burgundy frame with gray trim



Accessories

Safety Glass Cords

Safety glass cords help you to keep your glasses at hand and they will also allow you to secure the glasses to the face.

SGC-10 is our least expensive safety glass cord, woven from nylon. Eyelets attach to the temples. Red and royal blue.

SGC-20 is wider and comes equipped with a length adjustment, which allows you to hold the glasses securely to your face. Red and royal blue.

SGC-30 is an elastic construction that slips on the temples and hold them in place comfortably. Length adjustable. Red and black.



Storage bags for glasses and muffs

Storage bags help you protect your safety products and keep them at hand when you need them.

SGB-5 Micro-fiber bag with draw string. Can also be used as a lens cleaning cloth.

SGB-10 Zippered bag for all but the largest safety glasses. Comes with a belt clip.

SGB-20 Oversized, zippered safety glass bag. Made from heavy duty nylon and equipped with belt loop and belt clip.

SGB-30 Micro-fiber storage bag with draw string. Suitable for storage of goggles and ear muffs.



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