



SafeVision

BY HOYA



2024

PRESCRIPTION SAFETY EYEWEAR GUIDE

Featuring **PENTAX** Brand Safety Frames



2024 Prescription Safety Eyewear Guide

Corporate Programs

SafeVision has continuously provided comprehensive eye protection products and programs for over 75 years. We are the leading manufacturer of safety prescription eyewear in North America.

Eyewear Safety Standards

Employers are required to ensure that their employees have appropriate eye or face protection if they are exposed to potential hazards. General dress eyewear (streetwear or non-safety frames) does not meet the CSA Z94.3 or ANSI Z87.1 standards for Safety Prescription Eyewear. These standards specify stringent design, structural and lens retention requirements for safety eyewear.

Our prescription eyewear has been tested to and meets the requirements of both standards.

Prescription Safety Eyewear Corporate Programs

You work hard to provide a safe, productive work environment. And making sure everyone is wearing the appropriate type of safety eyewear while on the job is critical to that effort. But things can get complicated when it comes to employees who need prescription lenses – particularly when the workforce represents a wide range of job roles and individual eye care needs.

That's why we offer turn-key programs designed to help, by simplifying the ordering process and connecting employees to a national network of independent eye care providers. With package pricing that saves you money on a comprehensive range of frame styles, lens designs and lens treatment options, a SafeVision SRx Eyewear Program can turn a logistical challenge into a tangible benefit for your business.

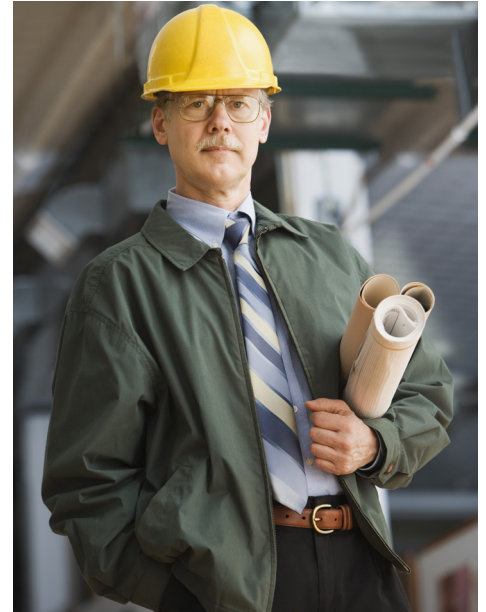


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2024 Prescription Safety Eyewear Guide

Group A

CSA Z94.3 Non-Conductive Tight Fitting

A2500
PENTAX

Black/Gray



Size 55-19-131 | 58-20-131
Color Black/Gray
Temple Standard
Side Shields Integrated

Size 55 58
A 55 58
B 36 37
ED 58 61

CSA Z94.3 Non-Conductive Tight Fitting

EAGLE
PENTAX

Smoke



Size 53-13-adj | 56-11-adj | 59-13-adj
Color Smoke
Temple Adjustable
Side Shields Integrated

Size 53 56 59
A 56 58 62
B 41 42 45
ED 57 58 62

Key

CSA Z94.3

These frames have been tested to and meet the current CSA Z94.3 standards.

Non-Conductive

These frames are non-conductive by design (no metal parts) OR they have passed a modified ASTM D149-09 test for dielectric strength and did not conduct electricity up to 1,000 volts for 60 seconds.

Tight Fitting

These frames are designed to wrap around the face and/or include a seal/gasket to help the frame fit closer to wearer's face.

All frames listed in this guide have also been tested to & meet the current ANSI Z87.1 standards. (Rx ready & high impact resistant)

Group B

CSA Z94.3

Smoke w. Breeze Catcher Side Shields

F6000
PENTAX



Standard

Size 50-13-140 | 53-15-140 | 55-15-145
Color Gray Fade
Temple Standard
Side Shields Standard | Breeze Catcher

Size 50 53 55
A 50 53 57
B 44 45 50
ED 57 60 62

CSA Z94.3

Smoke w. Breeze Catcher Side Shields

F9800
PENTAX



Perforated Full-Cup

Standard

Size 46-20-145 | 48-20-145
Color Smoke
Temple Standard
Side Shields Standard | Breeze Catcher | Perforated Full-Cup

Size 46 48
A 46 48
B 39 41
ED 49 52

CSA Z94.3

Smoke w. Perforated Full-Cup Side Shields

F9900
PENTAX



Perforated Full-Cup

Standard

Size 50-22-145 | 52-22-145
Color Smoke
Temple Standard
Side Shields Standard | Breeze Catcher | Perforated Full-Cup

Size 50 52
A 50 52
B 42 45
ED 54 56



Image features Attitude 5 frame



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Group C

CSA Z94.3 Non-Conductive Tight Fitting

A2000
PENTAX



Size 54-17-122 | 58-17-122
Color Smoke
Temple Standard
Side Shields Integrated

Size 54 58
A 54 58
B 32 34
ED 55 57

CSA Z94.3 Non-Conductive Tight Fitting

RAVN
PENTAX



Includes lanyard

Size 55-19-126
Colour Black & Orange | Black & Grey | Crystal & Dark Blue
Temple Standard
Side Shields Integrated

Size 55
A 55
B 38
ED 61

NEW FALL 2024

CSA Z94.3 Non-Conductive Tight Fitting

ZT100
PENTAX



Size 53-15-adj | 57-15-adj | 62-15-adj
Color Black | Blue/Grey | Grey/Red
Temple Adjustable
Side Shields Integrated

Size 53 57 62
A 53 57 62
B 35 36 36
ED 54 58 63



Image features ZT100 frame

Group D

CSA Z94.3

ALPHA
PENTAX



Size 49-20-130 | 51-20-135
Color Brown | Gunmetal
Temple Standard
Side Shields Standard

Size 49 51
A 49 51
B 32 35
ED 50 52

CSA Z94.3

Gunmetal

BETA
PENTAX



Size 56-18-140 | 58-18-145 | 60-18-145
Color Gunmetal | Black | Gold
Temple Standard
Side Shields Standard

Size 56 58 60
A 56 57 60
B 41 43 45
ED 60 62 65

CSA Z94.3

CLASSIC 3
PENTAX



Size 53-18-145
Color Black Crystal | Tortoise
Temple Spring Hinge
Side Shields Standard

Size 53
A 53
B 38
ED 56

CSA Z94.3

Black/Blue

CLASSIC 10
PENTAX



Size 52-16-140
Color Black/Blue | Tortoise/Brown
Temple Standard
Side Shields Standard

Size 52
A 52
B 39
ED 56



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Group D

CSA Z94.3

Black front, Red Temples

CLASSIC 11 PENTAX



Green Tortoise

Size 54-16-140
Color Black front, Red temples | Green Tortoise
Temple Standard
Side Shields Standard

Size 54
A 54
B 35
ED 57

CSA Z94.3

Blue Marble

CLASSIC 12 PENTAX



Brown Horn

Size 53-17-135
Color Brown Horn | Blue Marble
Temple Standard
Side Shields Standard

Size 53
A 53
B 38
ED 57

CSA Z94.3

Black Crystal

D490 PENTAX



Brown Amber

Size 54-16-140 | 56-16-145
Color Black Crystal | Brown Amber
Temple Standard
Side Shields Standard

Size 54 56
A 54 56
B 31 33
ED 56 58

CSA Z94.3

Olive

DX670 PENTAX



Tortoise

Size 51-19-135 | 53-19-140
Color Olive | Tortoise
Temple Spring Hinge
Side Shields Standard

Size 51 53
A 51 53
B 31 33
ED 53 56

CSA Z94.3

Gold

GAMMA PENTAX



Gunmetal

Size 52-18-140 | 54-18-145
Color Gold | Gunmetal
Temple Standard
Side Shields Standard

Size 52 54
A 52 54
B 37 39
ED 55 58

CSA Z94.3

Non-Conductive

Tight Fitting

goggle GT20 PENTAX



Black/Blue

Includes removable Rx insert

Size 50-20-strap (Rx insert)
Color Black/Blue
Temple Head strap
Side Shields Integrated

(Rx insert)

Size 50
A 50
B 34
ED 51

CSA Z94.3

Smoke Crystal

QUANTUM SafeVision



Pink Crystal

Clear

Black

Size 57-17-129
Color Smoke Crystal | Pink Crystal | Clear | Black
Temple Standard
Side Shields Integrated

Size 57
A 57
B 37
ED 60



Image features QUANTUM frame



SafeVision

2024 Prescription Safety Eyewear Guide

Group D

CSA Z94.3 Non-Conductive Tight Fitting

6 Base **ZT25**
PENTAX



Includes removable foam seal

Size (6 Base) 56-21-127

Color Matte Black | Camouflage

Temple Standard

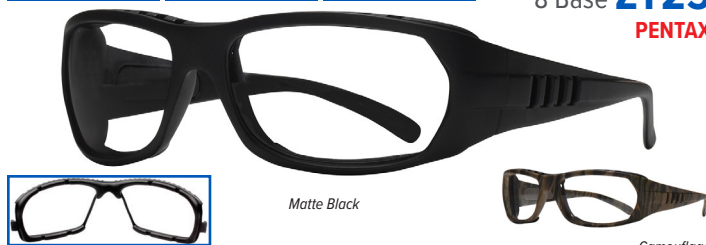
Side Shields Integrated

Phoenix, Trivex & Poly Lenses ONLY

Size 56
A 56
B 33
ED 55

CSA Z94.3 Non-Conductive Tight Fitting

8 Base **ZT25**
PENTAX



Includes removable foam seal

Size (8 Base) 61-19-127

Color Matte Black | Camouflage

Temple Standard

Side Shields Integrated

Rx limitation:
+ or - 4.00D total power
including a -3.00D cylinder
Phoenix, Trivex & Poly Lenses ONLY

Size 61
A 61
B 37
ED 61

CSA Z94.3 Non-Conductive Tight Fitting

Gray/Yellow w/ Crystal Carrier



Includes removable foam dust bar & lanyard

Size 54-20-126

Color Black/Lime Green w/ Crystal or Smoke | Gray/Yellow w/ Crystal or Smoke | Blue w/ Crystal or Smoke | Purple w/ Crystal or Smoke | Camo w/ Crystal or Brown

Temple Standard

Side Shields Integrated

ZT200
PENTAX



Size 54
A 54
B 34
ED 56

Group E

CSA Z94.3

Matte Copper

ATTITUDE 7
PENTAX



NEW FALL 2024

Size 56-17-140 | 58-17-140

Colour Matte Copper | Gunmetal

Temple Standard

Side Shields Integrated

Grooved Lenses REQUIRED
Phoenix, Trivex & Poly Lenses ONLY

Size 56 58
A 56 58
B 37 39
ED 59 61

CSA Z94.3 Non-Conductive

CLASSIC 56
PENTAX



Size 55-17-137

Color Gloss Black | Gloss Demi | Matte Tortoise

Temple Standard

Side Shields Integrated

Size 55
A 55
B 40
ED 57

CSA Z94.3

Stainless Steel **DP620**
PENTAX



Size 51-18-140 | 53-18-140

Color Brown | Black

Temple Spring Hinge

Side Shields Standard

Size 51 53
A 51 53
B 32 33
ED 53 55

DP720
PENTAX



Size 51-19-140 | 53-19-145

Color Matte Grey | Matte Brown

Temple Spring Hinge

Side Shields Standard

Size 51 53
A 51 53
B 31 33
ED 53 55



2024 Prescription Safety Eyewear Guide

Group E

CSA Z94.3

Grey Matte/Brown Matte

Stainless Steel **STEEL 400**
PENTAX



Size 49-19-140 | 51-19-145

Color Grey Matte/Brown Matte | Brown Matte/Silver Matte

Temple Spring Hinge

Side Shields Standard

Size 49 51
A 49 51
B 34 36
ED 53 54

CSA Z94.3

Non-Conductive

Tight Fitting

Camouflage

ZT35
PENTAX



Includes removable rubber gasket & temples + temple replacement head strap

Size 57-20-125

Color Matte Gray (Black Trim) | Camouflage | Shiny Black (Blue Trim)

Temple Standard removable

Side Shields Integrated

Size 57
A 57
B 37
ED 58

CSA Z94.3

Non-Conductive

Tight Fitting

6 Base **ZT45**
PENTAX



Includes removable foam seal

Size (6 Base) 54-13-130

Color Black w/ Black Graffiti | Camouflage | Silver

Temple Standard

Side Shields Integrated

Phoenix, Trivex & Poly Lenses ONLY

Size 54
A 54
B 32
ED 56

CSA Z94.3

Non-Conductive

Tight Fitting

8 Base **ZT45**
PENTAX



Includes removable foam seal

Size (8 Base) 63-13-130

Color Black w/ Black Graffiti | Silver | Camo

Temple Standard

Side Shields Integrated

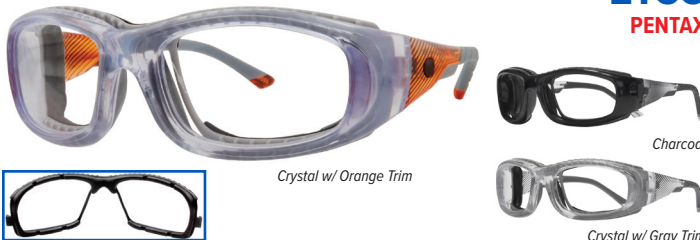
Rx limitation:
+ or - 4.00D total power
including a -3.00D cylinder
Phoenix, Trivex & Poly Lenses ONLY

Size 63
A 63
B 37
ED 66

Non-Conductive

Tight Fitting

ZT55
PENTAX



Includes removable foam seal

Size 57-17-130

Color Charcoal | Crystal w/ Gray Trim | Crystal w/ Orange Trim

Temple Standard with flex tip

Side Shields Integrated

Phoenix, Trivex & Poly Lenses ONLY

Size 57
A 57
B 36
ED 60



Image features ZT400 frame

CSA Z94.3

Non-Conductive

Tight Fitting



Navy w/ Clear Carrier

ZT400
PENTAX

Includes removable foam seal & head Strap

Size 57-15-133

Color Tan w/ Brown or Clear | Black w/ Smoke or Clear | Charcoal w/ Smoke or Clear | Navy w/ Smoke or Clear

Temple Standard with flex tip

Side Shields Integrated

Phoenix, Trivex & Poly Lenses ONLY

Size 57
A 57
B 34
ED 58



SafeVision

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Group E

CSA Z94.3 Non-Conductive Tight Fitting

ZT500
PENTAX



Includes removable head strap

Size 58-18-131

Color Blue | Red

Temple Standard

Side Shields Integrated

Size 58

A 58

B 38

ED 64

CSA Z94.3 Non-Conductive Tight Fitting

ZT500G
PENTAX



Includes removable rubber gasket & head strap

Size 58-18-131

Color Blue | Red

Temple Standard

Side Shields Integrated

Size 58

A 58

B 38

ED 64

Group F

CSA Z94.3

Stainless Steel **ATTITUDE 5**
PENTAX



Matte-Brown front, Tortoise Temples

Matte-Grey front, Silver Temples

Size 54-18-140

Color Matte-Grey front, Silver Temples | Matte-Brown front, Tortoise Temples

Temple Spring Hinge

Side Shields Standard

Size 54

A 54

B 30

ED 55

CSA Z94.3

Navy Blue w. Steel Shields side shields

Stainless Steel **REBEL**
PENTAX



Gunmetal (standard side shields)

Size 56-17-135

Color Navy Blue | Gunmetal

Temple Spring Hinge

Side Shields Standard | Steel Shield

Size 56

A 56

B 35

ED 58

CSA Z94.3

Bronze

URBAN 6
PENTAX



Black

Size 57-16-140

Color Black | Bronze

Temple Spring Hinge

Side Shields Standard

Size 57

A 57

B 33

ED 60



Image features Rebel frame

Select Wiley X safety frames styles also available.

WILEY X

(see separate SafeVision / Wiley X frame guide)

2024 Prescription Safety Eyewear Guide

Side Shields



Standard

- Made from high-impact polycarbonate
- Available in clear or grey
- Removable or permanently attached



Perforated Full-Cup

(F9800 & F9900 only)

- Made from propionate
- Perforated design helps reduce fogging
- Permanently attached



Breeze Catcher

(F9800, F9900 & F6000 only)

- Wire mesh design provides ventilation & helps reduce fogging
- Oxidized, corrosion resistant wire mesh
- Full-cup design
- Tighter-weave 40 mesh
- Permanently attached



Steel Shield

(Rebel only)

- Made of stainless steel
- Colors to match frame
- Oxidation and corrosion resistant
- Provides ventilation & helps reduce fogging
- Removable or permanently attached

Note: Not all Side Shield options are available on every frame. Please see frame data for specific availability.

Phoenix Lens Material

Provide employees with the perfect combination of durability & visual clarity

Material Features:

- High Impact resistance
- 60 times more impact resistant than standard plastic
- Twice as scratch resistant as polycarbonate
- Provides 100% UVA and UVB protection
- Temperature resistant
- The lightest lens material available today
- Tough against harsh chemicals and solvents which typically crack polycarbonate lenses
- Higher Abbe value of 43 vs. 30 for polycarbonate, which means less color distortion in the periphery of the lens

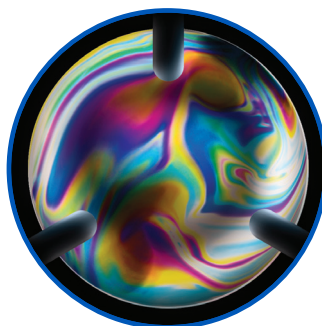
Chemical Resistant:

Harsh chemicals like ammonia, acetone and ethyl alcohols are known to attack polycarbonate lenses and cause cracking. The cracking and/or fogging typically emanates from the edge of the polycarbonate lens and can occur rapidly. Cracked lenses are a hazard because they do not have their original impact strength. They are not compliant to the CSA/ANSI standards. Employees should be encouraged to report and replace eyewear with cracked lenses immediately. That is why we highly recommend Phoenix lenses over polycarbonate.

Lens comparison as viewed through an illuminated polarized filter

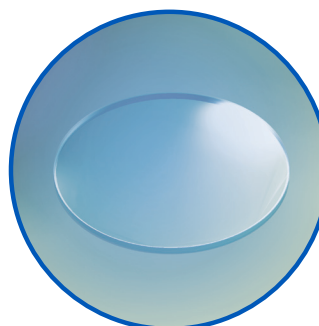


Phoenix



Polycarbonate

Phoenix withstands the impact from a 1/4" diameter steel ball traveling at over 100 mph



Phoenix



Other Lenses



2024 Prescription Safety Eyewear Guide

Lens Treatments

RECHARGE

Recharge is a premium anti-reflective treatment with the added benefit of blue light filtration. Blue light is emitted by back-lit digital screens and is linked with eye fatigue.



Scratch Resistant



Smudge Resistant



Anti-Reflective



Water Resistant



Dust Resistant



Blue Light Filtration

SUPER HiVISION

EX3

Using Super Premium Anti-Reflective (AR) technologies, Hoya has created the most extreme AR product available on the market which outperforms glass.



Scratch Resistant



Smudge Resistant



Anti-Reflective



Water Resistant



Dust Resistant

HiVISION

An oleophobic treatment with added scratch resistance on both the front and back of the lens.



Scratch Resistant



Smudge Resistant



Anti-Reflective



ANTI-REFLECTION with ANTI-FOG

Anti-reflective front side with an anti-fog back side.



Scratch Resistant



Anti-Fog



Anti-Reflective

Anti-Fog treatments work well with any frame style, but it is particularly effective at reducing the possibility of fogging with frames that feature a close fitting or sealed design.

Some examples include:



ZT100



ZT200



Eagle



ZT25 Sealed



ZT35 Sealed



ZT45 Sealed



ZT400 Sealed



ZT500G



ZT55

CLEAR AWAY EASY CLEAN with ANTI-FOG

Oleophobic front side with an anti-fog back side.



Scratch Resistant



Smudge Resistant



Anti-Fog

ANTI-FOG

Anti-fog front and back side



Scratch Resistant



Anti-Fog

CLEAR AWAY EASY CLEAN

Oleophobic front and back side



Scratch Resistant



Smudge Resistant

CLARITY SHIELD

Anti-scratch front and back side



Scratch Resistant



2024 Prescription Safety Eyewear Guide

Lens Designs

SafeVision designs utilize Hoya's free-form backside surfacing technology to optimize lenses for all prescriptions. This also allows for a wide range of materials and colors to offer the greatest selection of lens options for safety eyewear requirements.

SafeVision 1 Basic No-Line Progressive

Design Features:

- Enable your eyes to make smooth, gradual movements when you change your focus from near to intermediate to far vision
- Unlike bifocal lenses, SafeVision 1 lenses eliminate the line that creates an abrupt, annoying vision change from near to far vision

Available Designs:

- Large: 19mm minimum fitting height
- Standard: 14mm minimum fitting height

[Compare to HOYA Amplitude](#)

SafeVision 2 Enhanced No-Line Progressive

Increased visual acuity for distance, intermediate & close range

Design Features:

- Customized for your prescription
- Vivid and sharp viewing ranges
- Wide, stable and natural vision
- Fluid transition between near and distance viewing

Available Designs:

- Standard: Variable corridor length based on seg. height specified by optician
- Wrap: Variable corridor length based on seg. height specified by optician

[Compare to HOYA Array](#)

SafeVision 3 Maximum No-Line Progressive

The very best vision for distance, intermediate & close range

Design Features:

- Customized for your prescription
- Noticeably sharper viewing zones
- Clearer peripheral vision with wide, stable and natural vision at all distances
- Superior ergonomics creating natural, comfortable viewing and head movement

Available Designs:

- Standard: Variable corridor length based on seg. height specified by optician
- Wrap: Variable corridor length based on seg. height specified by optician

[Compare to HOYA Array 2](#)



- Hoya's [Binocular Harmonization Technology](#) -

This patented technology takes into account the difference between the right and left eye as individual components to calculate the optimal lens design to ensure your eyes work perfectly together.

Ergonomic Workstation Design

For computer users & employees who engage in visually-intense work

Design Features:

- Relieve eye strain and health problems related to Digital Eye Strain
- Delivers exceptionally wide intermediate and near viewing zones with a minimum distance field of view

We highly recommend adding our blue light filtering treatment, Rechargesm

Available Designs: 18mm fitting height

- EWD40: 40% of near Rx at the fitting point
- EWD60: 60% of near Rx at the fitting point

[Compare to HOYA Tact](#)



Larger intermediate area provides a more comfortable visual experience

Single Vision

Lined Bifocal

Lined Trifocal



Sunglasses

Variable Tint Indoor-Outdoor Technology

Features:

- Light reactive lenses that are clear indoors and darken outdoors
- Ideal for those frequently switching from inside to outside tasks
- Available in BROWN and GREY



Polarized

Features:

- 100% UV protection
- Protects against blinding glare from reflective surfaces
- Available in BROWN and GREY



Tinted

Features:

- Reduces bright light and adds contrast
- *Does not protect against glare from reflective surfaces*
- Available in BROWN and GREY

Anti-Fog Sprays & Wipes

Our anti-fog solution is specially formulated to outperform store-bought options and safe to use on all prescription lens coatings. Helps to keep your eyeglasses from fogging when wearing a facemask or tight-fitting eyewear.

Anti-Fog 30ml Spray KIT

Includes: (1) spray bottle, (1) microfiber cloth, (1) carrying pouch, (1) retail box
Can be ordered individually or in cartons of 35

Anti-Fog 15ml Dropper Bottle

Includes: (1) dropper bottle
Can be ordered individually or in cartons of 40

Anti-Fog Dry Wipe 5 Pack

Includes: (5) dry wipes, (1) retail box
Can be ordered individually or in cartons of 40

Anti-Fog Dry Wipe 100 Bulk

Includes: (100) dry wipes
Can only be ordered in cartons of 100



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WARNING

These eye and face protection products help provide limited eye and face protection. **Misuse or failure to follow warnings and User Instructions may result in serious injury, including blindness or death.** For proper use, selection, and applications against flying particles, optical radiation and/or splash, see supervisor, written instructions or safety manager.