

Fields of use	
Code	Designation
1	Enhanced optical performance (marking optional)
3	Droplets
4	Large dust particles
5	Gas and fine dust particles
6	Streams of liquids
7	Radiant heat
9	Molten metals and and hot solids
CH	Chemical resistance
T	Tested at extreme of temperatures (-5°C to +55°C)

NOTE: The protections corresponding to code 7, 9 and CH are provided by the complete set of safety glasses only if the respective symbols are equal on both the lenses and frame.

Protective filters for welding - Code letter W (according to EN ISO 16321-2: 2021)			
Code	Scale numbers	Detection of signal lights	Enhanced reflectance in the infrared spectral range
W	1,2 to 16	No	No
WL		Minimally alter	No

NOTE: For arc welding scale numbers from 8 to 14 are used depending on the type of electrode and current used. Ref. Tab.3 EN ISO 16321-2:2021.

Storage

Store in a dry place at room temperature and protect from sunlight. The eyewear must be transported and stored in the original package, at a temperature between 5°C and 30°C (41°F and 86°F) and a relative humidity of <80%.

Maintenance

The lenses must be cleaned or disinfected regularly. This must be done using a mild detergent, optical cleaning solution, or a solution very low in alcohol at room temperature (20°C/68°F ± 5°C/41°F). The eyewear should provide adequate protection for a period exceeding 6 months and up to 2 years. Regularly check the status. Eyewear that has been subjected to impact, and scratched or damaged lenses, shall not be used and must be replaced or disposed of. The markings found on the lens and on the frame represent the ratings of the product and the appropriate field of application. Scandia Gear shall not be liable for damages arising from misuse and improper maintenance and preservation of the PPE itself.

Warning

- Eye protection that is worn over standard ophthalmic spectacles may transmit impact from high speed particles thus creating a hazard to the wearer. Although every effort is made to ensure that materials that may come into contact with the skin of the wearer do not cause an allergic reaction, this may not happen for a minority of susceptible individuals, and if you are in this situation, you must stop wearing the eyewear immediately and seek professional advice.
- These spectacles are intended for use as work site eye protection. They should not be used as protective equipment in sports or in hazardous recreational activities.
- Do not use these spectacles for protection against laser lights and direct sunlight.
- Not suitable for driving in twilight or at night.
- These spectacles should not be used as personal protective equipment for welding, electrical maintenance, grinding, food preparation or heavy industrial work.

Manufacturer

Scandia Gear Europe B.V.
Lorentzweg 31
3208 LJ Spijkensisse
The Netherlands

Disclaimer

Scandia is not liable for damages that result from the improper use or abuse of these products or as a result of not following instructions concerning proper maintenance and wear.



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SAFETY EYEWEAR



User's Instruction

www.scandiagear.com

ROTTERDAM SINGAPORE HOUSTON DUBAI

SINCE 1974

MARITIME OUTFITTERS



SAFETY EYEWEAR

Thank you for choosing our safety eyewear

You have chosen a Scandia Gear Personal Protective Equipment. Please read these instructions prior to use and prior to any maintenance.

European EN ISO 16321-1:2022 standard

EN ISO 16321-1:2022 : European standard for personal eye-protection

This multi-certified product belongs to Category II and is approved in accordance with the EU Regulation 2016/425 and the requirements of the European harmonized standard EN ISO 16321-1:2022.

This eye protector is designed to protect the user against specific ocular risks as identified by the markings on the product. Depending on the marking codes, the device provides protection against: Mechanical risks: eye trauma, lacerations, or retinal damage caused by high-speed particles (Levels C, D, E). Optical risks: degenerative diseases (e.g., cataracts, photokeratitis) or retinal injury caused by exposure to UV, IR, or solar radiation (U, R, L). Chemical, Thermal & Particle risks: severe irritation or burns caused by liquid droplets/splashes (3), large dust particles (4), gases/fine dust (5), molten metals/hot solids (6), or specific chemicals (CH).

Protection is strictly limited to the hazards corresponding to the markings present on the device. For risks not identified by a marking, no protection is guaranteed."

This product has been subjected to an EU-type Examination performed by:

Certottica S.C.R.L. N.B. 2008
Zona Industriale Villanova,
32013, Longarone (BL), Italy

CE marking on PPE indicates compliance with applicable requirements of EU Regulation 2016/425.

The EU Declaration of Conformity (DOC) can be obtained through following link:
www.scandiagear.com

Note

Please ensure that the eyewear always fits well. According to EN ISO 18526-4:2020 this eyewear is appropriate for headform size 1-M which being the default size.

Model

The name of the model is always indicated on the barcode of the packaging.

Fitting of Spare Parts and Accessories

(If applicable): Use original spare parts only. To replace the lenses, first check the compatibility of the markings and mount the lenses in the correct position. For any additional information about spare parts and accessories, please contact Scandia's Sales Department/Team.

Lens markings

Identification of manufacturer – filtering performance and shade number – Impact level – field of use – CE marking

Frame markings

Number of standard – Identification of manufacturer – filtering performance and maximum shade number – Impact level – field of use – CE marking

Scale number (filters only)

Ultraviolet (UV) protective filters- Code letter U			
Code	Scale numbers	Notice	
U	1,2 to 5	Does not meet the requirement for detection of signal lights	
UL		Meets the requirement for detection of signal lights	
Infrared (IR) protective filters- Code letter R			
Code	Scale numbers	Detection of signal lights	Enhanced infrared reflectance
R	1,2 to 10	No	No
RL		Yes	No
RR		No	Yes
RRL		Yes	Yes
Sunglare filters for occupational use- Code letter G			
Code	Scale numbers	Detection of signal lights	Infrared transmittance
G	0 to 4	No	No
GL		Yes	No
GR		No	Yes
GLR		Yes	Yes
Sunglare filters of scale number GL0, GL1, GL2, GL3 are suitable for road use and driving. Sunglare filters with a luminous transmittance of less than 75% and higher than 8%, the eyewear is not suitable for driving at night or in low light conditions. Same for photochromic filters of which the luminous transmittance in the faded condition is less than 75%.			
Sunglare filters that meet the optional infrared transmittance requirements shall be marked with the code letter GR or GLR respectively.			

NOTE: Safety eyewear with non-uniform spectral transmission in the visible region can affect the recognition of colour and/or signal light detection.

NOTE: If the requirement of field of view and/or transmittance for driving are not fulfilled, the eyewear is not suitable for driving and road use.



Mechanical resistance	
Code	Mechanical strength requirements
C	Impact level C (45 m/s)
D	Impact level D (80 m/s)
E	Impact level E (120 m/s)
HM	Impact level HM
HM	Impact level HM (high mass impact)
CT	Impact level C (45 m/s) at extremes of temperature (-5°C / +55°C)
DT	Impact level D (80 m/s) at extremes of temperature (-5°C / +55°C)
ET	Impact level E (120 m/s) at extremes of temperature (-5°C / +55°C)
HMT	Impact level HM (High mass impact) at extremes of temperature (-5°C / +55°C)
NOTE: No code letter exists for the basic impact level since this corresponds to the minimum level of mechanical strength required by the standard.	

If the symbol C, D, E or HM is not found on both the lenses and the frame, then the lower value is assigned to the complete set of safety glasses. If protection is required against high speed particles at extreme temperatures, then the safety glasses should be marked with the letter T immediately following the letter indicating the impact resistance, i.e. CT, DT, ET or HMT. If the letter indicating the impact resistance is not followed by the letter T, then the safety glasses should be used only against high speed particles at room temperature.

Marking on lens	
Code	Designation
K	Abrasion resistance (to surface damage caused by fine particles)
N	Resistance to fogging