



Test Report T20298-01-1 Issue 1
ANSI/ISEA Z87.1-2020
Iristick NV
Iristick.G3 Smart Safety Glasses
06 October 2025



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Belgium

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Objective:

Contract testing to ANSI/ISEA Z87.1-2020 “American National Standard for Occupational and Educational Personal Eye and Face Protection Devices”.

Clause(s): 5. Fundamental Design Requirements for All Protectors

Samples:

Iristick.G3 Smart Safety Glasses

Lens	Quantity	Sample ID
Clear	5	8A-xx

Date(s) submitted: 22 September 2025

Procedures:

All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Samples were randomly selected from the quantity provided and tested in the as-received condition unless otherwise stated.

Testing procedures as specified within Section 9 of ANSI/ISEA Z87.1-2020 were followed unless noted in results.

When applicable, samples were assessed on medium headform (64mm PD).

Assessment Summary:

Date(s) tested: 29 September 2025 through 03 October 2025

Samples as assessed meet the requirements of ANSI/ISEA Z87.1-2020 for Standard (Non-Impact Rated) Spectacles.

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Assessment Summary (Continued):

ANSI/ISEA Z87.1-2020 Requirements	Compliant	Non-Compliant
5. Fundamental Design Requirements for All Protectors		
5.1 Optical Requirements		
5.1.1 Optical Quality	X	
5.1.2 Luminous Transmission	X	
5.1.3 Haze - Clear Lenses Only	X	
5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors	X	
5.1.5 Refractive Power, Astigmatism, Prism and Prism Imbalance for Prescription Protectors and Magnifiers	Not applicable	
5.2 Physical Requirements	X	
5.2.1 Drop Ball Impact Resistance	X	
5.2.2 Ignition	X	
5.2.3 Corrosion Resistance of Metal Components	X	
5.2.4 Minimum Coverage Area	X	
5.3 Markings		
5.3.1 Required Protector Markings	X	
5.3.2 Placement of Markings ¹		
5.3.3 Prescription Lens Carriers	Not applicable	
5.4 Other Requirements	Not applicable	
5.5 Replaceable Lenses	Not applicable	
5.6 Aftermarket Components and Accessories	Not applicable	

¹Assessed using artwork provided by client.

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Results:

5.1.1 Optical Quality; Result: Pass

Sample ID: 8A-1

Requirement: Lenses shall be free of striae, bubbles, waves and other visible defects which would impair the wearer's vision.

5.1.2 Luminous Transmittance (Tv) - ILLA (Clear Lenses)

Sample ID	Left (%)	Right (%)	Left/Right	Pass	Fail
8A-1	96.2	96.3	0.999	X	
Requirement:	≥ 85		N/A		

5.1.3 Haze - Clear Lens Only

Sample ID	Left (%)	Right (%)	Pass	Fail
8A-1	0.26	0.21	X	
Requirement:	≤ 3			

Measured relative to Illuminate A.

5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors

Refractive Power & Astigmatism

Sample ID	Left (m ⁻¹)		Right (m ⁻¹)		Pass	Fail
	Refractive Power	Astigmatism	Refractive Power	Astigmatism		
8A-1	-0.01	0.05	0.02	0.05	X	
Requirement:	+/- 0.06	≤ 0.06	+/- 0.06	≤ 0.06		

Tested in a simulated as worn position using a 7mm aperture.

Resolving Power

Sample ID	Pattern Resolved (Yes/No)		Pass	Fail
	Left	Right		
8A-1	Yes	Yes	X	
Requirement:	Resolve Pattern 20			

Tested in a simulated as worn position using a 7mm aperture.

Prism and Prism Imbalance

Sample ID	Prismatic Power (cm/m)		Vertical Imbalance(cm/m)	Horizontal Imbalance(cm/m)	Pass	Fail
	Left	Right				
8A-1	0.18	0.12	<0.05	0.18 Base Out	X	
Requirement:	≤ 0.50		≤ 0.25	Base Out ≤ 0.50 Base In ≤ 0.25		

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5.2 Physical Requirements; Results: Pass

Sample ID: 8A-1

Requirement: Protectors shall be free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use.

5.2.1 Drop Ball Impact Resistance

Sample ID	Location	Pass	Fail
<i>Display Up</i>			
8A-2	Left	X	
8A-3	Right	X	
8A-4	Left	X	
8A-5	Right	X	
<i>Display Down</i>			
4A-2	Right	X	
4A-4	Right	X	
Protector shall fail if any of the following occur:			
<ul style="list-style-type: none"> • lens (lens only) fractures • piece fully detached from the inner surface • projectile penetrates the inner surface • lens not retained 			

5.2.2 Ignition; Results: Pass

Sample ID: 8A-2 (Lens, Frame, Temple, Display, Display Arm, Nose Piece, Battery Cover)

Requirement: Protectors shall not ignite or continue to glow once the rod is removed. Each externally exposed material (exclusive of textiles or elastic bands) shall be tested.

5.2.3 Corrosion resistance of Metal Components; Results: Pass

Sample ID: 8A-2 (Nosepiece)

Requirement: Metal components used in protectors shall be corrosion resistant to the degree that the function of the protector shall not be impaired by the corrosion and the protector can be worn as intended. Lenses and electrical components are excluded from these requirements

5.2.4 Minimum Coverage Area; Result: Pass

Sample ID: 8A-1

Requirement: The frames, lens housings or carriers and lens(es) shall cover in plain view an area of not less than 40 mm (1.57 in.) in width and 33 mm (1.30 in.) in height (elliptical) in front of each eye, centered on the pupil centers of test headform.

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5.3.1 Required Protector Markings; Result: Pass

All protectors shall bear the permanent and legible markings in specified locations as shown in Table 3. Markings for lens type and use applications shall be required only when claims for protection against the hazard or indicated use are made by the manufacturer.

The components of frames that are intended for prescription protector use shall be marked for size in accordance with the system described in ANSI/ISO 7998/8624/12870. Fronts shall be marked with the A-dimension (eye size) and DBL (distance between lenses). Temples shall be marked with their overall length.

Component	Marking Present	Requirement	Pass	Fail
Front	None	Complete Device (no replaceable components) shall have at least one set of markings. The marking may be on the lens or the frames or both the lens and the frame. Requirement: "Manufacturers Mark" Designation of Standard "Z87" or "Z87-2"	X	
Left Temple	"iristick.g3" "Z87"			
Right Temple	None			
Lenses	None			

Sample Photograph(s):



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