

Test Report T11281-01-2 Issue 1 ANSI/ISEA Z87.1-2015 Importadores y Exportadores Solmaq SAS Spider and Gafa Safer Spectacles 23 June 2017



Approved by:

Keith E. Whitten Laboratory Manager Prepared by:

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#### **Objective:**

Contract testing to ANSI/ISEA Z87.1-2015 "American National Standard for Occupational and Educational Personal Eye and Face Protection Devices".

Clause(s): 5. General Requirements

-excluding Markings

- 6. Impact Protector Requirements
- 7. Optical Radiation Protector Requirements
  - -Ultraviolet Filters (Table 7)
  - -Visible Light Filters (Table 9)
  - -Special Purpose Lenses (Table 10)

#### Samples:

Spectacles

Solmaq Brand	Solmaq Model	Lens	Quantity	Sample ID
ALLMAN	Spider	Claar	12	1A
SAFER	Gafa Safer	Clear 12		1A
ALLMAN	Spider	Smoke	5	1B
SAFER	Gafa Safer	Silloke	3	1.D
ALLMAN	Spider	Indoor/Outdoor	12	1D

Date(s) submitted: 05 December 2016

#### **Procedures:**

Testing protocols in accord with good laboratory practice were employed for all tests.

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 Z87.1-2015 were followed unless noted in results.

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

Prismatic Power, Refractive Power, and Resolving Power are a function of lens geometry, not tint, therefore these tests were performed only on one tint variant of each lens type.

# **Assessment Summary:**

Date(s) tested: 07 through 09 December 2016

Samples as assessed meet the requirements of ANSI/ISEA Z87.1-2015 for Impact Rated Spectacles.





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**Assessment Summary-Continued:** 

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ANSI/ISEA Z87.1-2015 Requirements	Compliant	Non-Compliant
5. General Requirements		
5.1 Optical Requirements		
5.1.1 Optical Quality	X	
5.1.2 Luminous Transmission (Clear Lenses)	X	
5.1.3 Haze - Clear Lenses Only	X	
5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Imbalance for Plano Protectors	A	
5.1.5 Refractive Power, Astigmatism, Prism and Prism Imbalance Prescription Protectors and Magnifiers	for Not a	pplicable
5.2 Physical Requirements	X	
5.2.1 Drop Ball Impact Resistance	Not a	pplicable
5.2.2 Ignition	X	
5.2.3 Corrosion Resistance of Metal Components	Not a	pplicable
5.2.4 Minimum Coverage Area	X	
5.3 Markings	Not	assessed
5.4 Other Requirements	Not a	pplicable
5.5 Replaceable Lenses		pplicable
5.6 Aftermarket Components and Accessories		pplicable
6. Impact-Rated Protector Requirements		• •
6.1 General		
6.1.1 Protectors Marked for Impact Protection		
6.1.2 Frames and Shells	See 6.2	.2 and 6.2.3
6.1.3 Lateral (Side) Coverage	X	
6.2 Impact Requirements		•
6.2.1 Protector Acceptance Criteria		
6.2.2 High Mass Impact	X	
6.2.3 High Velocity Impact	X	
6.2.4 Penetration Test (Lens Only)	X	
6.2.5 Prescription Lens Material Qualification	Not a	pplicable
6.2.6 Prescription Lens Mounting Qualification		pplicable
6.2.7 Devices with Lift Fronts		pplicable
7. Optical Radiation Protector Requirements		
7.1 Protectors with Clear Lenses	Se	e 5.1.2
7.2 Protectors providing Filtration of Optical Radiation		
7.2.1 Filter Lenses		
7.2.1.1 Transmission Requirements	X	
7.2.1.2 Visible Light Filters (ANSI Z80.3-2010)	X	
7.2.1.3 Variations in Luminous Transmittance (Welding)		pplicable
7.2.2 Transmittance of Non Lens Components (Goggles & Sidesh		pplicable
Droplet and Splash, Dust, and Fine Dust Protector Requirements		pplicable
5. Dropiet and Spiasii, Bust, and The Bust Protector Requirements	Not a	ррпсавіс

Summary of Optical Radiation Requirements:

Lens	ANSI/ISEA Z87.1-2015	ANSI Z80.3-2010		
	Filter Scale Met	Transmittance Requirements Met		
Clear	U6	N/A		
		General Purpose (Medium to Dark),		
Smoke	U6 L3	Ultraviolet High or Prolong Exposure,		
		Suitable for Driving, Not Suitable for Driving at Twilight or Night		
		General Purpose (Medium to Dark),		
Indoor/Outdoor	U6 L2	Ultraviolet High or Prolong Exposure,		
		Suitable for Driving, Not Suitable for Driving at Twilight or Night		





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#### **Results:**

#### 5.1.1 **Optical Quality; Result: Pass**

Lenses are free of striae, bubbles, waves and other visible defects which would impair their optical quality.

5.1.2 **Luminous Transmission (Clear Lenses)** 

Sample ID	Left (%)	Right (%)	Left/Right	Pass	Fail
1A-2	89.4	89.5	0.999	X	
Requirement:	$100 \ge T_L \ge 85$		N/A		

5.1.3 **Haze - Clear Lens Only** 

	·· - J			
Sample ID	Left (%)	Right (%)	Pass	Fail
1A-2	0.22	0.18	X	
Requirement:	<	3		

Illuminate C used instead of Illuminate A.

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

**Refractive Power & Astigmatism** 

Sample ID	Left (m <sup>-1</sup> )		Right (m <sup>-1</sup> )		Pass	Fail
	Refractive Power	Astigmatism	Refractive Power Astigmatism		rass	ган
Clear						
1A-1	-0.03	0.02	0.01	0.03	X	
Indoor/Outdoor						
1D-1	-0.03	0.02	0.02	0.02	X	
Requirement:	+/- 0.06	≤ 0.06	+/- 0.06	≤ 0.06		•

Tested in a simulated as worn position using a 19mm aperture.

Resolving Power

resolving I ower			
Sample ID	Left	Right	Pass Fail
Clear			
1A-1	20	20	X
Indoor/Outdoor			
1D-1	20	20	X
Requirement:	Patte	rn 20	

Tested in a simulated as worn position using a 19mm aperture.

#### **Prism and Prism Imbalance**

Sample ID -	Prismatic Power (cm/m)		Vertical	Horizontal	Pass	Fail
	Left Right		Imbalance(cm/m)	Imbalance(cm/m)	rass	ган
Clear						
1A-1	0.14	0.16	< 0.05	0.29 Base Out	X	
Indoor/Outdoor	•					
1D-1	0.10	0.15	< 0.05	0.25 Base Out	X	
Dagwinamant	. (	N 50	< 0.25	Base Out $\leq 0.50$		
Requirement: $\leq 0.50$		≤ 0.25	Base In $\leq 0.25$			





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# 5.2 Physical Requirements; Results: Pass

Protectors are 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**

Protectors meeting the requirements of 6.2 are exempt from drop ball impact testing

## 5.2.2 Ignition; Result: Pass

Lenses and Temple did not ignite or continue to glow once the rod was removed.

### 5.2.4 Minimum Coverage Area; Result: Pass

The frames, lens housings or carriers and lens(es) cover in plane 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 geometrical center of the lens.





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#### **6.1.1** Protectors Marked for Impact Protection

Protectors and replaceable components marked for impact protection in accordance with Table 3 shall meet applicable requirements of Section 6.

#### 6.1.2 Frames and Shells

Frames and shells shall meet the requirements for high mass impact and high velocity impact in order to be impact-rated. These components shall be tested as a complete device. For frames and shells to be used with prescription lenses, they shall be fitted with representative test lenses having a nominal plano power and an minimum lens thickness to be used by the manufacturer, in no case less than 2.0mm (0.079in). Frames and shells are exempt from the penetration requirement.

#### 6.1.3 Lateral (Side) Coverage; Result: Pass

When mounted on the medium headform protectors provide continuous lateral coverage (i.e. no openings greater than 1.5mm (0.06 in.) in diameter) from the vertical plane of the lenses tangential to a point not less than 10 mm (0.394 in.) posterior to the corneal plane and not less than 10 mm (0.394 in.) in height above and not less than 10 mm (0.394in.) in height below the horizontal plane centered on the eyes of the headform. The probe does not contact the headform within the defined coverage area.

### 6.2.1 Protector Acceptance Criteria

When each type test is conducted as indicated in Sections 6.2.2, 6.2.3 and 6.2.4 and, as applicable Section 6.2.6, a complete device shall fail if any of the following occurs:

- any part, fragment or material visible to the unaided eye becomes detached from the inner surface of any complete device, as determined by inspection of the device or of the contact paste;
- fracture;
- penetration of the inner surface either by the projectile passing completely through the lens, frame or housing component, or by rupture of the inner lens surface;
- lens not retained;
- for the high-velocity test, the unaided eye observes any piece adhering to the contact paste, or observes contact paste on the projectile or complete device.

In the case of plano protectors with a prescription lens carrier, contact of the prescription lens carrier with the headform does not constitute a failure.

#### **6.2.2** High Mass Impact

Sample ID	Location	Pass	Fail
Clear			
1A-3	Right	X	
1A-4	Left	X	
1A-5	Right	X	
1A-6	Left	X	
Smoke			
1B-3	Right	X	
1B-4	Left	X	
Indoor/Outdoo	r		
1D-3	Right	X	
1D-4	Left	X	
1D-5	Right	X	
1D-6	Left	X	





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6.2.3 **High Velocity Impact** 

Sample ID	Location	Velocity (ft/sec)	Pass	Fail
Clear			· ·	
1A-7	Right 0°	152	X	
1A-8	Right 30°	151	X	
1A-9	Right 90° ↑ 10mm	151	X	
1A-10	Left 0°	152	X	
1A-11	Left 30°	152	X	
1A-12	Left 90° ↓ 10mm	151	X	
Smoke			· ·	
1B-5	Right 0°	150	X	
1B-5	Left 0°	153	X	
Indoor/Outdoo	r			
1D-7	Right 0°	153	X	
1D-8	Right 30°	152	X	
1D-9	Right 90° ↑ 10mm	151	X	
1D-10	Left 0°	153	X	
1D-11	Left 30°	152	X	
1D-12	Left 90° ↓ 10mm	150	X	

6.2.4 **Penetration Test (Lenses Only)** 

Sample ID	Location	Pass	Fail
Clear			
1A-3	Left	X	
1A-4	Right	X	
1A-5	Left	X	
1A-6	Right	X	
Smoke			
1B-3	Left	X	
1B-4	Right	X	
Indoor/Outdoo	r		
1D-3	Left	X	
1D-4	Right	X	
1D-5	Left	X	
1D-6	Right	X	





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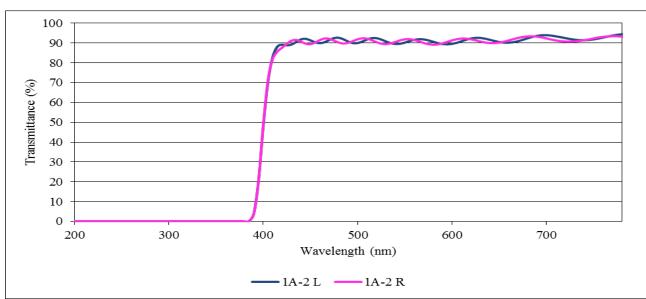
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# 7.2.1.1 Transmission Requirements – *Clear*

# -Ultraviolet Filters (Table 7)

Sample ID:	1A-2L	1A-2R	Requirement (U6)	Pass	Fail
Far-Ultraviolet (200 to 315nm)	0.00011	0.00012	≤ 0.01%	X	
Near-Ultraviolet (315 to 380nm)	0.00029	0.00029	≤ 0.1%	X	







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# 7.2.1.1 Transmission Requirements – Smoke

# -Ultraviolet Filters (Table 7)

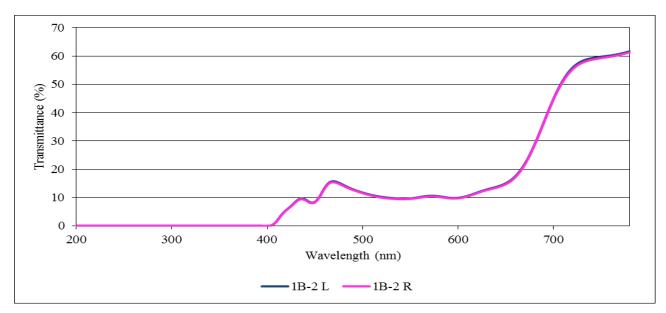
Sample ID:	1B-2L	1B-2R	Requirement (U6)	Pass	Fail
Far-Ultraviolet (200 to 315nm)	0.00002	0.00002	≤ 0.01%	X	
Near-Ultraviolet (315 to 380nm)	0.00002	0.00002	≤ 0.1%	X	

-Visible Light Filters (Table 9)

Sample ID	: 1B-2L	1B-2R	Requirement (L3)	Pass	Fail
Luminous (T <sub>L</sub> )-ILLA	10.9	10.7	8.5 to 18%	X	

-Special Purpose Lenses (Table 10)

	Sample ID:	1B-2L	1B-2R	Left/Right	Pass	Fail
Luminous (T <sub>L</sub> )-ILLA		10.7	10.2	1.046	X	
Requirement:						
Tinted:		100 >	$T_L \ge 8$	$1.10 \ge L/R \ge 0.90$		
Extra Dark:		8 > T	$_{\rm L} \ge 0.2$	$1.20 \ge L/R \ge 0.80$		







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# 7.2.1.1 Transmission Requirements – Indoor/Outdoor

### -Ultraviolet Filters (Table 7)

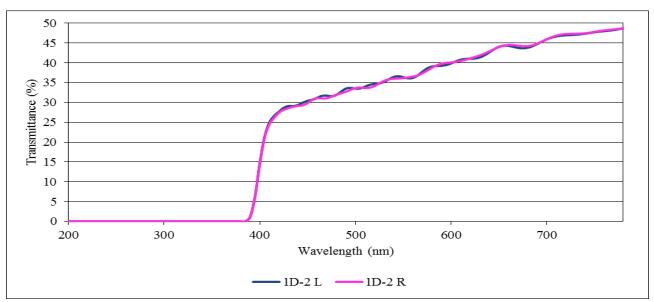
Sample ID:	1D-2L	1D-2R	Requirement (U6)	Pass	Fail
Far-Ultraviolet (200 to 315nm)	0.00004	0.00004	≤ 0.01%	X	
Near-Ultraviolet (315 to 380nm)	0.00010	0.00010	≤ 0.1%	X	

# -Visible Light Filters (Table 9)

Sample ID:	1D-2L	1D-2R	Requirement (L2)	Pass	Fail
Luminous (T <sub>L</sub> )-ILLA	38.0	38.0	43 to 29%	X	

-Special Purpose Lenses (Table 10)

	Sample ID:	1D-2L	1D-2R	Left/Right	Pass	Fail
Luminous (T <sub>L</sub> )-ILLA		36.7	36.4	1.008	X	
Requirement:						
Tinted:		100 >	$T_L \ge 8$	$1.10 \ge L/R \ge 0.90$		
Extra Dark:		8 > T	L ≥ 0.2	$1.20 \ge L/R \ge 0.80$		







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# Colombia Page: 10 of 11 7.2.1.2 Visible Light Filters (ANSI Z80.3-2010 Table 4 Transmittance Requirements and Traffic Signal Recognition)

### -Smoke

Sample ID:	1B-2L	1B-2R	Requirement (Medium to Dark)	Pass	Fail
Luminous (Tv) - ILLC	10.7	10.5	8 to 40%	X	
Mean Transmittance					
-UVB (280 to 315nm)	0.00002	0.00002	≤ 1%	X	
-UVA (315 to 380nm)	0.00002	0.00002	≤ 0.5Tv	X	
4.6.3 Transmittance Properties	Related to Traffic Sig	gnal Recognition			
4.6.3.1 Color Limits					
-Yellow (x,y)	0.593, 0.406	0.594, 0.405	See ANSI Z80.3	X	
-Green (x,y)	0.199, 0.380	0.199, 0.380	Figure 1	X	
-D65 (x,y)	0.318, 0.323	0.319, 0.323	riguie i	X	
4.6.3.2 Traffic Signal Transmit	tance				
-Luminous (Tv) - ILLC	10.7	10.5	≥ 8%	X	
-Red	15.0	14.7	≥ 8%	X	
-Yellow	11.1	10.9	≥ 6%	X	
-Green	10.5	10.2	≥ 6%	X	
4.6.3.3 Spectral Transmittance					
-Min. 475 to 650nm	9.63	9.44	≥ 0.2Tv	X	

UVB and UVA limits are for High or Prolonged Exposure.

#### -Indoor/Outdoor

Sample ID:	1D-2L	1D-2R	Requirement (Medium to Dark)	Pass	Fail
Luminous (Tv) - ILLC	37.1	37.0	8 to 40%	X	
Mean Transmittance					
-UVB (280 to 315nm)	0.00005	0.00005	≤ 1%	X	
-UVA (315 to 380nm)	0.00010	0.00010	≤ 0.5Tv	X	
4.6.3 Transmittance Properties	Related to Traffic Sig	gnal Recognition			
4.6.3.1 Color Limits					
-Yellow (x,y)	0.593, 0.416	0.583, 0.416	Cas ANCI 790.2	X	
-Green (x,y)	0.218, 0.421	0.219, 0.422	See ANSI Z80.3 Figure 1	X	
-D65 (x,y)	0.338, 0.349	0.339, 0.350	rigule 1	X	
4.6.3.2 Traffic Signal Transmitt	ance				
-Luminous (Tv) - ILLC	37.1	37.0	≥ 8%	X	
-Red	42.4	42.6	≥ 8%	X	
-Yellow	39.1	39.2	≥ 6%	X	
-Green	35.7	35.5	≥ 6%	X	
4.6.3.3 Spectral Transmittance					
-Min. 475 to 650nm	31.7	31.1	≥ 0.2Tv	X	

UVB and UVA limits are for High or Prolonged Exposure.





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# **Sample Photographs:**









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