



EC-type examination certificate

Registration number / Reference mark C4416SUNLONG/R0

ASL 03 CL

The company

Aman Safety Ltd.
126 Beverly Hill Road
CLIFTON, NEW JERSEY 07012
USA

Applicant's code SUNLONG

hereby receives the confirmation that the product/s

spectacle

of the type

ASL 03 CL

conforms to

DIN EN 166:2002-04
Essential Requirements according to
Annex II of Directive 89/686/EEC (Edition: 1989-12)

Test report(s): 12921-PZA-11

Identification: Information see annex

This EC-type examination certificate is valid until 2016-12-20.

See annex for further information.

DIN CERTCO GmbH
Prüf- und Zertifizierungszentrum Aalen
Gartenstraße 133, 73430 Aalen



2011-12-21

U. Fallscheer
Dipl.-Ing. (FH) Ute Fallscheer
Notified Body 0196

Samples and summary of all test results

Type:	Safety spectacle, type "ASL 03 CL"
Test mark:	12921-PZA-11
Number of delivered parts: 20	Number of test samples: 18



Test- sequence	Requirements			Tests		Sample 1292-1 to 1292-18	
				According to			According to
		DIN EN	Clause	DIN EN	Clause		
1	Marking	166	9	166	9	-	
2	User Information	166	10	166	10	+	
3	Design and manufacturing	166	6	-	-	+	
4	Diffusion of light	166	7.1.2.3	167	4	+	
5	Field of vision	166	7.1.1	168	18	+	
6	Lateral protection	166	7.2.8	168	19	+	
7	Transmittance	166	7.1.2.2.1	167	6	+	
8	Variations in transmittance	166	7.1.2.2.3	167	7	+	
9	Refractive powers	166	7.1.2.1	167	3	+	
10	Quality of material and surface	166	7.1.3	167	5	+	
11	Thermal stability	166	7.1.5.1	168	5	+	
12	UV stability	166	7.1.5.2	168	6	+	
13	Increased robustness	-5°C +55°C	166	7.1.4.2	168	3.1	+
14	High speed particles (45 m/s)		166	7.2.2	168	9	+
15	Resistance to ignition		166	7.1.7	168	7	+
16	Resistance to corrosion		166	7.1.6	168	8	+

Individual results of each test sample see annex 1

ANNEX 1

Test mark:	12921-PZA-11
Type:	Safety spectacle, type "ASL 03 CL"

Description of the type

Frame:	Marking:	SUNLONG, EN 166 F CE
	Material:	Plastics, metal screws
Oculars:	Marking:	None
	Material:	Plastic
	Centre thickness:	2,3 mm
User information:	Available and complete	
Design and manufacturing requirements:	Fulfilled	

Quality of material and surface, diffusion of light, refractive powers, transmittance, lateral protection and field of vision

Test ↓	Sample →	1292-1	1292-2	1292-3	1292-4	1292-5	1292-6
Quality of material and surface		+	+	+	/	/	/
Reduced luminance coefficient	R	/	/	/	0,12	0,15	0,18
	L						
Spherical power	R	-0,02	-0,03	-0,03	/	/	/
	L						
Astigmatic power	R	0,01	0,01	0,00	/	/	/
	L						
Difference in prismatic effect horizontal	cm/m	0,05	0,10	0,05	/	/	/
		base out	base out	base out			
Difference in prismatic effect vertical	cm/m	0,10	0,03	0,03	/	/	/
Optical class		1	1	1	/	/	/
Luminous transmittance τ_{v1} based on CIE source A	%	90,4	89,7	89,7	90,4	89,8	89,7
Lateral protection		+	+	+	/	/	/
Field of vision		+	+	+	/	/	/

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Test mark:	12921-PZA-11
Type:	Safety spectacle, type "ASL 03 CL"

Thermal and UV stability

Test↓	Sample→	1292-1	1292-2	1292-3	1292-4	1292-5	1292-6
Reduced luminance coefficient	$\frac{\text{cd/m}^2}{\text{lx}}$	/	/	/	0,35	0,30	0,25
Luminous transmittance τ_{v2} based on CIE source A	%	/	/	/	89,2	88,9	89,0
Relative change of luminous transmittance $\Delta\tau_v / \tau_{v1}$	%	/	/	/	1,3	1,1	0,8
Spherical power	dpt	0,00	0,00	+0,01	/	/	/
Astigmatic power	dpt	0,00	0,00	0,01	/	/	/
Temperature stability (frame)		+	+	+	/	/	/

Increased robustness

Sample	Temperature [°C]	Impact point	Comments
1292-7	+ 55	1	+
1292-8	+ 55	1	+
1292-9	+ 55	2	+
1292-10	+ 55	2	+
1292-11	+ 55	3	+
1292-12	+ 55	4	+
1292-13	- 5	1	+
1292-14	- 5	1	+
1292-15	- 5	2	+
1292-16	- 5	2	+
1292-17	- 5	3	+
1292-18	- 5	4	+

Impact points:

1 left eye frontal
3 left eye side

2 right eye frontal
4 right eye side

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Test mark:	12921-PZA-11
Type:	Safety spectacle, type "ASL 03 CL"

Resistance to high speed particles

Bullet speed: 45 m/s

Ambient temperature: (23±5)° C

Sample	Impact point	Comments
1292-7	4	+
1292-8	3	+
1292-9	2	+
1292-10	2	+
1292-11	1	+
1292-12	1	+
1292-13	4	+
1292-14	3	+
1292-15	2	+
1292-16	2	+
1292-17	1	+
1292-18	1	+

Impact points:

1 left eye frontal
3 left eye side

2 right eye frontal
4 right eye side

Resistance to ignition and corrosion

Test ↓	Sample →	1292-7	1292-8	1292-9	1292-10	1292-11	1292-12
Resistance to ignition		/	/	/	+	+	+
Resistance to corrosion		+	+	+	/	/	/

Annex

to the Certificate with Registration No. C4324SUNLONG/R0, dated 2011-12-21

Herewith, DIN CERTCO PZA certifies that the model is in compliance with the basic requirements of the Directive 89/686/EEG for personal protective equipment. The certificate is based both / either on the tests and / or on the technical documentation submitted by the manufacturer.

Test report(s)

10962-PZA-11

Name and address of DIN CERTCO as the notified body - identification no. 0196 are to be indicated in the information brochure for the product.

This eye-protection is to be marked on the oculars and/or the frames. The marking must include:

SUNLONG 1B - 166B CE

Additional product specification

Optical class	1
Mechanical strength	B (120m/s)
Configuration	colour: clear