

Notified Body No. 1023
INSTITUTE FOR TESTING AND CERTIFICATION, Inc.
trida Tomase Bati 299, Louky, 763 02 Zlin, Czech Republic
www.itczlin.cz

EU Type-Examination Certificate No. 21 0213 T/NB

issued in the compliance with the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC, for personal protective equipment of category II:

Baymax Safety Glasses Type: S1551 Quattro

Manufacturer:

EN 170:2002

BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ Yunus Emre Mah. Ulubey Cad. Enlab Apt. No:10/1, 34791 Sancaktepe, Istanbul. TURKEY

Tax Registration No: 1520288042

This Certificate confirms that above referenced personal protective equipment (PPE) fulfils the essential health and safety requirements as they are stated in the Regulation (EU) 2016/425 of the European Parliament and of the Council, specified in detail in the harmonized technical standards:

EN 166:2001 Personal eye protection - Specifications [transparent visor with UV filtering effect, optical class 1 or dark welding visor, basic use + protection against droplets and liquids - 3]

Personal eye-protection - Ultraviolet filters - Transmittance requirements and

recommended use [transparent visor - scale number 2 - 1,2]

EN 169:2002 Personal eye-protection - Filters for welding and related techniques - Transmittance requirements and recommended use [dark visor - scale number 6]

The PPE is produced in compliance with the manufacturer's technical file and it can be used in complete safety for its intended purpose. The detailed product descriptions, the results of technical file examination as well as the test results including their evaluation are presented in the ITC's Evaluation Report No. 723302116/C/2021 that is an integral part of this Certificate.

Condition of this certificate use and related information:

1. It applies only to the above referenced type of category II PPE submitted to test.

It does not imply that the Notified Body has performed any surveillance or control of PPE manufacture.

- 3. The manufacturer is obligated to assure that all PPEs of the respective type conform to the type approved by this Certificate
- 4. The applicant shall inform the Notified Body of all technology changes in manufacture of the approved type and as consequence of the technical advances he shall regularly keep himself informed of any standard changes as well as modifications of testing methods conducted by the Notified Body, which shall approve these changes in necessary cases by the amendment of this Certificate, which shall approve these changes in necessary cases by the amendment of this Certificate.

 After fulfilling the relevant EU legislation requirements, the manufacturer shall affix to each PPE, of the above referenced type, the CE-marking according to principles laid down in Regulation (EC) no. 765/2008.

Issued in Zlin, on 20th May 2021 Valid until: 19th May 2026 Mgr. Jiří Heš

Representative of the Notified Body No. 1023



INSTITUTE FOR TESTING AND CERTIFICATION, INC.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

EVALUATION REPORT

Ref. No.: 723302116/C/2021

Customer: BAYEM GRUP IÇ VE DIŞ TİC. LTD. STİ

Yunus Emre Mah. Ulubey Cad. Enlab Apt. No:10/1, 34791 Sancaktepe, Istanbul

TURKEY

Product: **Baymax Safety Glasses**

Type: S1551 Quattro

Conformity

Dipl. Ing. Daniela Olšanová assessed by:

Issued on: 2021-05-20

Mgr. Jiří Heš

ESTING Representative of Notified Body No. 1023

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Ref. No. 723302116/C/2021

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Introduction

This Evaluation Report was issued on the basis of Application No. 723302116 for the assessment of conformity of personal protective equipment (PPE) with the basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

This assessment should prove the fulfilment of EU legislation requirements for the purpose of the access of the assessed products to the EU market.

This is a recertification of already assessed Baymax Safety Glasses, type: S 1551 Quattro see EU Type-Examination Certificate No. 19 0084 T/NB. The following properties were tested within this order: resistance to ageing, stability at an elevated temperature, resistance to ignition, optical requirements – transmittance. In addition, general construction, marking and user information were assessed. Other test results were taken from Evaluation Report No. 723301662/2019.

1. Identification of assessed personal protective equipment

A detailed description of the design and structure, including the drawing documentation and specifications of material used, is given in the file of technical documentation of the product Baymax Safety Glasses, type: S1551 QUATTRO.

The submitted documentation covers the following models and alternatives of the product:

Sample No. 723302116/C

Baymax Safety Glasses, type: S1551 QUATTRO

Material specification:

Sample number	Name of the product	Materials
723302116/C	Baymax Safety Glasses, type: S1551 QUATTRO	Ocular: polycarbonate (PC) Dark ocular: PC Frame / Handle: Polyvi- nylchloride (PVC)

Protection function:

Eye and face protection for basic use + protection against droplets of liquids (3).

Type of filter (VISOR): transparent ocular UV filter (scale number 2 – 1,2, optical class 1), dark ocular – welding filter (scale number 6)

Classification:

Baymax Safety Glasses, type: S1551 QUATTRO is classified as PPE Category II by the manufacturer.

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Design:



2. Technical documentation

Technical documentation was submitted in the English language to assess the conformity of the Baymax Safety Glasses, type: S1551 QUATTRO in April 2021. The file of technical documentation contains the items in according to Annex III of the Regulation (EU) 2016/425 of the European Parliament and of the Council.

- 3. Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC
- 3.1 Basic requirements for the product and its specification in technical specifications Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC setting out technical requirements for personal protective equipment.

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Tables No. 1 through 3 state the analysis of applicability of basic requirements according to Annex II of Regulation (EU) 2016/425 in the right column, supplemented in case of applicable requirements by articles of harmonised standards stated in their harmonisation annex ZA or other technical specifications used for proving the conformity with respective partial requirement. "A" letter in the third column of the tables means that these requirements has been used for the given PPE, the "N/A" abbreviation (not applicable) means the requirement does not apply to the given PPE because it is irrelevant for the given intended use and/or the material used.

Column 4 of Tables No. 1 – 3 states the articles of harmonised standards which are linked, by means of cross links in the harmonisation annex ZA, to the respective basic requirement of Regulation (EU) 2016/425. Meeting these articles of the harmonised standard proves the conformity of the product with the given basic requirement stated in the right column.

The fifth column of Tables No. 1-3 states the articles of non-harmonised technical specifications by which the manufacturer proves the conformity with the respective basic requirement which is not included in harmonisation. These can be articles of non-harmonised national or international standards as well as articles of harmonised standards which are not connected with the given requirement by a link in the harmonisation annex ZA. In extraordinary cases, the respective basic requirement can be set quite specifically by the Regulation so the conformity can be assessed directly with this article of the Regulation without any necessity to specify the required by means of a harmonised standard or other technical specification.

In case of applicable requirements, the last column of Tables No. 1– 3 states the assessment of the given requirement, whether PPE passes or does not pass. "P" letter means PPE passes the given requirement; "N/P" means it does not pass it.

Table 1: Overview of basic requirements and technical specifications used in the PPE design. General requirements applicable to all PPE

Require- ment number in Annex II	Requirement description	Applica- tion A N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)		Assess- ment P – N/P
1.1	Design principles	Α	EN 166 art. 6.1, 6.2, 6.3 EN 170, Annex B		Р
1.1.1	Ergonomics	A	EN 166 art. 6.3, 7.1.1 EN 169, Annex A EN 170, Annex B		Р
1.1.2	Levels and classes of protection	Α	EN 166 art. 7.1, 7.2		Р
1.1.2.1	Optimum level of pro- tection	Α	EN 166 art. 7.1, 7.2 EN 169, art. 5 EN 170, art. 5		Р
1.1.2.2	Classes of protection appropriate to different levels of risks	А	EN 166 art. 7.1, 7.2 EN 169, art. 5, Annex B EN 170, art. 5, Annex B		Р
1.2	Innocuousness of PPE	Α		See requirement 1.2.1, 1.2.1.1, 1.2.1.2 and 1.2.1.3 below	Р
1.2.1	Absence of risks and other inherent nuisance factors	А		See requirement 1.2.1.1, 1.2.1.2 and 1.2.1.3 below	Р

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P – N/P
1.2.1.1	Suitable constituent materials	Α	EN 166 art. 6.2		Р
1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	А	EN 166 art. 6.1 EN 169, Scope of standard EN 170, Scope of standard		Р
1.2.1.3	Maximum permissible user impediment	А	EN 166 art. 6.3, 7.1.1 EN 169, Scope of standard EN 170, Scope of standard		Р
1.3	Comfort and effective- ness	Α	EN 166 art. 6.3, 7.1.1		P
1.3.1	Adaptation of PPE to user morphology	Α	EN 166 art. 6.3, 7.1.1		Р
1.3.2	Lightness and design strength	А	EN 166 art. 7.1.4, 7.2.2 EN 169, Scope of standard EN 170, Scope of standard		Р
1.3.3	Compatibility of different classes or types of PPE designed for simultane- ous use	Α		Direct assessment according to the art. 1.3.3, Annex II of PPE Regulation	Р
1.3.4	Protective clothing containing removable protectors	N/A			V
1.4	Manufacturer's instruc- tions and information	Α	EN 166 art. 10 EN 169, Scope of standard EN 170, Scope of standard		Р

Table 2: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements common to several classes or types of PPE

Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	ment
2.1	PPE incorporating ad- justment systems	Α	EN 166 art. 6.3		Р
2.2	PPE enclosing the parts of the body to be protected	N/A			
2.3	PPE for the face, eyes and respiratory system	А	EN 166 all articles + 7.2.2 (except of art. 7.2) EN 169, art. 5.3 EN 170, art. 5.2		Р

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Require- ment number in Annex li	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P – N/P
2.4	PPE subject to ageing	Α	EN 166 art. 7.1.5 EN 169, Scope of standard EN 170, Scope of standard		Р
2.5	PPE which may be caught up during use	N/A			
2.6	PPE for use in poten- tially explosive atmos- pheres	N/A			
2.7	PPE intended for rapid intervention or to be put on or removed rapidly	N/A			
2.8	PPE for intervention in very dangerous situations	N/A			_
2.9	PPE incorporating com- ponents which can be adjusted or removed by the user	А	EN 166 art. 6.3		Р
2.10	PPE for connection to complementary equipment external to the PPE	N/A			_
2.11	PPE incorporating a fluid circulation system	N/A			
2.12	PPE bearing one or more identification markings or indicators directly or indirectly re- lating to health and safety	А	EN 166 art. 9 EN 169, art. 4 EN 170, art. 4		Р
2.13	PPE capable of signal- ling the user's presence visually	N/A			
2.14	'Multi-risk' PPE	Α	EN 166 all articles + 7.2.2 (except of art. 7.2)	EN 170	Р

Table 3: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements specific to particular risks

Require- ment number in Annex II	Requirement description	Application A - N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	ment
3.1	Protection against me- chanical impact	Α	EN 166 art. 7.1.4, 7.2.2	Р
3.1.1	Impact caused by fall- ing or ejected objects and collision of parts of the body with an obsta- cle	А	EN 166 art. 7.1.4, 7.2.2	Р

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ment number in Annex II	Requirement descrip- tion	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
3.1.2	Falls	N/A			
3.1.2.1	Prevention of falls due to slipping	N/A		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
3.1.2.2	Prevention of falls from a height	N/A			
3.1.3	Mechanical vibration	N/A	-		
3.2	Protection against static compression of part of the body	N/A			
3.3	Protection against me- chanical injuries	N/A			_
3.4	Protection in liquids	N/A		· · · · · · · · · · · · · · · · · · ·	
3.4.1	Prevention of drowning	N/A			
3.4.2	Buoyancy aids	N/A			
3.5	Protection against the harmful effects of noise	N/A			
3.6	Protection against heat and/or fire	N/A			
3.6.1	PPE constituent materi- als and other compo- nents	N/A			
3.6.2	Complete PPE ready for use	N/A			
3.7	Protection against cold	N/A			
3.7.1	PPE constituent materi- als and other compo- nents	N/A			
3.7.2	Complete PPE ready for use	N/A			
3.8	Protection against elec- tric shock	N/A			
3.8.1	Insulating equipment	N/A			
3.8.2	Conductive equipment	N/A			-
3.9	Radiation protection	Α	EN 166 art. 7.2.1 EN 170, art. 5, Annex B EN 169		Р
3.9.1	Non-ionising radiation	Α	EN 166 art. 7.2.1 EN 169, art. 5, Annex EN 170, art. 5, Annex B		Р
3.9.2	lonising radiation	N/A			
3.9.2.1	Protection against ex- ternal radioactive con- tamination	N/A			_
3.9.2.2	Protection against ex- ternal irradiation	N/A			
3.10.1	Protection against sub- stances and mixtures which are hazardous to health and against harmful biological agents Respiratory protection	N/A N/A			

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	nised standard speci-	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	ment
3.10.2	Protection against cuta- neous and ocular con- tact	N/A			,,,,,
3.11	Diving equipment	N/A			_

When designing the product, the manufacturer applied the following standard harmonised to Regulation (EU) 2016/425:

EN 166:2001 Personal eye protection - Specifications

EN 170:2002 Personal eye-protection – Ultraviolet filters - Transmittance requirements and recommended use

EN 169:2002 Personal eye-protection - Filters for welding and related techniques - Transmittance requirements and recommended use

3.2 Indicators specifying basic requirements and test methods

Indicators specifying applicable basic requirements (marked with "A" in the third column of Tables No. 1 through 3):

- Design and manufacturing requirements
- General construction
- Materials
- Basic requirements
- Field of vision
- Optical requirements
 - Spherical refractive power
 - Astigmatic refractive power
 - Prismatic refractive power
 - Transmittance in UV and VIS range
 - Variations in transmittance
 - Diffusion of light
- Quality of material and surface
- Minimal robustness
- Resistance to ageing
 - Stability at an elevated temperature
 - Resistance to ultraviolet radiations
- Resistance to ignition
- Special requirement
- Protection against droplets of liquids
- Lateral protection
- Marking
- Information supplied by the manufacturer

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3.3 Test methods

Table No. 4: Overview of test methods used for evaluating the materials and product

Properties	Test method
Design and manufacturing requirements	
- General construction	visual assessment
- Materials	visual assessment
Basic requirements	
- Field of vision	art. 18 EN 168
Optical requirements	
- Spherical refractive power	art. 3 EN 167
- Astigmatic refractive power	/testing was carried out only on the transparent
- Prismatic refractive power	oculars because the dark ocular does not lay of light/
- Transmittance	art. 6 EN 167
- Variation in transmittance	art. 7 EN 167
- Diffusion of light	art. 4 EN 167 /testing was carried out only on the transparent oculars because the dark ocular does not lay of light/
Quality of material and surface	art. 5 EN 167
Minimum robustness	art. 3.1 EN 168
Resistance to ageing	
- Stability at an elevated temperature	art. 5 EN 168
- Resistance to ultraviolet radiations	art. 6 EN 168
Resistance to ignition	art. 7 EN 168
Special requirement	
- Lateral protection	art. 19 EN 168
- Protection against droplets of liquids	art. 12 EN 168
Marking	visual assessment
Information supplied by the manufacturer	visual assessment

3.4 Place and scope of sampling

Samples of the assessed product were delivered by the Customer on 2021-04-01 in compliance with the instruction of the designated worker of the NB at the quantity 12 pieces of Baymax Safety Glasses, type: S1551 QUATTRO.

With regard to the fact that this is the EU type examination by a notified body, the Customer asking for assessing the conformity is responsible for selecting a sample (or prototype). The test examination does not include inspection activity focused on the conformity of properties of all products introduced to the market with the assessed (proto)type.

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3.5 Place of performing the tests and assessment

Tests were performed in the following accredited testing laboratories: Institute for testing and certification, a.s., Zlín, Czech Republic and Meopta – optika, s.r.o., Přerov, Czech Republic.

The documentation was examined and visual inspection and product type assessment were performed in Institute for testing and certification, a.s., Czech Republic.

3.6 Results of tests and assessment

Results of the personal protective equipment evaluation are summarised in Table No. 5. Test methods stated in respective part of Table No. 4 were used.

Table 5: Results of the evaluation of the Baymax Safety Glasses, type: \$1551 QUATTRO

Significant property	Measuring unit	Requirement	Determination / Document No.
Design and manufacture / innocuousness, comfort, ergonomics /	_	art. 6 EN 166	pass / D1, D2, D3
General construction	-	art. 6.1 EN 166	pass / D1, D2
Materials	-	art. 6.2 EN 166	pass / D1, D3
Field of vision	==	art. 7.1.1 EN 166 Eye-protector shall exhibit: - minimum field of vision defined by the two ellipses in Figure 1 - placing of the ellipses shall be in compliance with requirements of standard	pass / D1 Eye protector exhibit: -larger than minimal field of vision defined by the two ellipses in figure 1 -placing of the ellipses comply with requirements of standard
Optical requirements			
- Spherical refractive power	m -1	art. 7.1.2.1.2 EN 166 Table 3 Optical class 1: max. ±0,06	pass / D1 (optical class 1)
- Astigmatic refractive power	m ⁻¹	art. 7.1.2.1.2 EN 166 Table 3 Optical class 1: 0,06	pass / D1 (optical class 1)
- Prismatic refractive power	cm/m	art. 7.1.2.1.2. EN 166 Optical class 1: Horizontal (base in): 0,25 Vertical: 0,25	pass / D1 (optical class 1) Horizontal (base in): 0 Vertical: 0
- Transmittance (VIS) transparent ocular	%	art. 5 EN 170, table 1 ≥74,4	pass / D5 87,7
- Transmittance (VIS) dark ocular	%	art. 5.2 EN 169, table 1 scale number 6 0,44 – 1,2	pass / D1 0,8

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Table 5: Continuation from page 10. Results of the evaluation of the Baymax Safety Glasses, type: S1551 QUATTRO

Significant property	Measuring unit	Requirement	Determination / Document No.
Optical requirements	Angel and angel and an angel an angel and an angel and an angel and an angel and an angel and an		
- Transmittance (UV) transparent ocular	%	art. 5 EN 170, table 1 scale number 2 – 1,2 313 nm ≤ 0,003	pass / D1
7.15.2	nominational and a second	365 nm ≤ 50	0
- Transmittance (UV) dark ocular	%	art. 5.2 EN 169, table 1 scale number 6 313 nm ≤ 0,0003 365 nm ≤ 0,10	pass / D1 0 0
- Transmittance (IR) dark ocular	%	art. 5.2 EN 169, table 1 scale number 6 ≤ 1,7	pass / D1
- Variation in transmittance transparent ocular	%	art. 7.1.2.2.3.1 EN 166 Table 4 max, ±5	0,8 pass / D1
- Diffusion of light transparent ocular	cd.m ⁻² .lx ⁻¹	art. 7.1.2.3 EN 166 max. 0,5	pass / D1 max. 0,02
Quality of material and surface		art. 7.1.3 EN 166 visor shall be free from any significant defects likely to impair vision in use	pass / D1 visor is without any significant defects likely to impair vision in use
Minimum robustness	<u>-</u>	art. 7.1.4.1EN 166 The following defect shall not occur: a) fracture b) ocular deformation	pass / D1 without fracture and ocular deformation
Resistance to ageing		-	
Stability at an elevated temperature (55 °C)	-	art. 7.1.5.1 EN 166 visor shall show no apparent deformation	pass / D4 without apparent deformation
Resistance to ultraviolet radiations	- Hanning	art. 7.1.5.2 EN 166	pass / D1
-Relative change of the luminous transmittance in visible spectrum	%	±5	0,2
- Diffusion of light	cd.m ⁻² .lx ⁻¹	max. 0,5	0
Resistance to ignition	-	art. 7.1.7 EN 166 no part of visor ignites or continues to glow after removal of the steel rod	pass / D4 without ignition and continuing to glow after removal of the steel rod
Protection against droplets of liquids	=1	art. 7.2.4a EN 166	pass / D1 no pink or crimson colouration appears in the ocular regions defined by the two circles when assessing goggles for protection against droplets

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Table 5: Continuation from page 11. Results of the evaluation of the Baymax Safety Glasses, type: S1551 QUATTRO

Significant property	Measuring unit	Requirement	Determination / Document No.
Lateral protection	-	art. 7.2.8 EN 166 is satisfactory if the eye- protector prevents the tip of the rod from touching the impact regions on the head- form	pass / D1 lateral protection prevents the tip of the rod from touching the impact regions on the head-form
Marking	-	art. 9 EN 166	pass / D2
Information for users		art. 10 EN 166	pass / D2

The bases for the evaluations stated in Table No. 5 are the test results specified in the following documents:

- D1: Evaluation Report Ref. No. 723301662/2019 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2019-02-19
- D2: Record of assessment No. 723302116/C issued by Institute for testing and certification, a. s. Zlín on 2021-04-22
- D3: Declaration about innocuousness issued by BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- D4: Accredited Laboratory Test Report Ref. No. 723302116/01 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2021-04-15
- D5: Test Report No. KX E 2115 issued by Meopta optika, s.r.o., Přerov, Czech Republic, on 2021-04-26

3.7 Assessment of product conformity with technical specifications and basic requirements

The assessed product – Baymax Safety Glasses, type: S1551 QUATTRO – complies with the requirements set by the following technical standard with regard to its design and submitted documentation:

- EN 166:2001 Personal eye protection Specifications
- EN 170:2002 Personal eye-protection Ultraviolet filters Transmittance requirements and recommended use
- EN 169:2002 Personal eye-protection Filters for welding and related techniques Transmittance requirements and recommended use

Results of the evaluation of the personal protective equipment stated in Table No. 5 hereof prove the conformity of all indicators specifying general basic requirements of Regulation (EU) 2016/425, additional basic requirements common for more types of PPE and additional basic requirements for special risks applicable to the evaluated type of product.

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4. Conclusion

Notified Body 1023 performed EU Type-Examination of the personal protective equipment

Baymax Safety Glasses Type: S1551 QUATTRO

Technical specifications used by the manufacturer are in compliance with basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The sample of the personal protective equipment was produced in compliance with the technical documentation of the manufacturer and can be fully safely used for its intended purpose.

The sample of the personal protective equipment meets all the provisions of the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Notified Body NB 1023 decided to issue the EU Type-Examination Certificate.

5. List of documents used for the preparation for the Evaluation Report

- Application for the EU Type-Examination BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ Şti. company dated on 2021-03-31
- Technical documentation issued by the BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ company dated in April 2021
- Check list issued by BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- Evaluation Report Ref. No. 723301659/2019 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2019-02-19
- Record of assessment No. 723302116/A issued by Institute for testing and certification, a.
 s. Zlín on 2021-04-22
- Declaration about innocuousness issued by BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- Accredited Laboratory Test Report Ref. No. 723302116/01 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2021-04-15
- Test Report No. KX E 2115 issued by Meopta optika, s.r.o., Přerov, Czech Republic, on 2021-04-26

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Notified Body No. 1023 INSTITUTE FOR TESTING AND CERTIFICATION, Inc. trida Tomase Bati 299, Louky, 763 02 Zlin, Czech Republic

EU Type-Examination Certificate

No. 21 0216 T/NB

issued in the compliance with the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC, for personal protective equipment of category II:

Baymax Safety Glasses

Type: \$ 400

Manufacturer:

BAYEM GRUP IC VE DIS TIC. LTD. STI

Yunus Emre Mah. Ulubey Cad. Enlab Apt. No:10/1, 34791 Sancaktepe, Istanbul, TURKEY

Tax Registration No: 1520288042

This Certificate confirms that above referenced personal protective equipment (PPE) fulfils the essential health and safety requirements as they are stated in the Regulation (EU) 2016/425 of the European Parliament and of the Council, specified in detail in the harmonized technical standards:

EN 166:2001 Personal eye protection - Specifications [visor with UV filtering effect - optical class 2, basic

use + protection against high speed particles - low energy impact - F]

EN 170:2002 Personal eye-protection - Ultraviolet filters - Transmittance requirements and

recommended use [scale number 2 - 1,2]

The PPE is produced in compliance with the manufacturer's technical file and it can be used in complete safety for its intended purpose. The detailed product descriptions, the results of technical file examination as well as the test results including their evaluation are presented in the ITC's Evaluation Report No. 723302116/A/2021 that is an integral part of this Certificate.

Condition of this certificate use and related information:

1. It applies only to the above referenced type of category II PPE submitted to test.

2. It does not imply that the Notified Body has performed any surveillance or control of PPE manufacture.

- The manufacturer is obligated to assure that all PPEs of the respective type conform to the type approved by this Certificate.
- 4. The applicant shall inform the Notified Body of all technology changes in manufacture of the approved type and as consequence of the technical advances he shall regularly keep himself informed of any standard changes as well as modifications of testing methods conducted by the Notified Body, which shall approve these changes in necessary cases by the amendment of this Certificate, which shall approve these changes in necessary cases by the amendment of this Certificate.
- 5. After fulfilling the relevant EU legislation requirements, the manufacturer shall affix to each PPE, of the above referenced type, the CE-marking according to principles laid down in Regulation (EC) no. 765/2008.

Issued in Zlin, on 24th May 2021 Valid until: 23rd May 2026



Mgr. J ří Heš Representative of the Notified Body No. 1023



INSTITUTE FOR TESTING AND CERTIFICATION, INC.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

EVALUATION REPORT

Ref. No.: 723302116/A/2021

Customer:

BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ

Yunus Emre Mah. Ulubey Cad. Enlab Apt. No:10/1, 34791 Sancaktepe, Istanbul

TURKEY

Product:

Baymax Safety Glasses

Type: S 400

Conformity

assessed by:

Dipl. Ing. Daniela Olšanová

Issued on: 2021-05-24

SATION STATES

Mgr Jiří Heš

Representative of Notified Body No. 1023

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Introduction

This Evaluation Report was issued on the basis of Application No. 723302116 for the assessment of conformity of personal protective equipment (PPE) with the basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

This assessment should prove the fulfilment of EU legislation requirements for the purpose of the access of the assessed products to the EU market.

This is a recertification of already assessed Baymax Safety Glasses, type: S 400 see EU Type-Examination Certificate No. 19 0081 T/NB. The following properties were tested within this order: resistance to ageing, stability at an elevated temperature, resistance to ignition, optical requirements – transmittance. In addition, general construction, marking and user information were assessed. Other test results were taken from Evaluation Report No. 723301659/2019.

1. Identification of assessed personal protective equipment

A detailed description of the design and structure, including the drawing documentation and specifications of material used, is given in the file of technical documentation of the product Baymax Safety Glasses, type: S 400.

The submitted documentation covers the following models and alternatives of the product:

Sample No. 723302116/A

Baymax Safety Glasses, type: S 400

Material specification:

Sample number	Name of the product	Materials
723302116/A	Baymax Safety Glasses,	Ocular: polycarbonate
120002110/A	type: S 400	Handle: polyamide

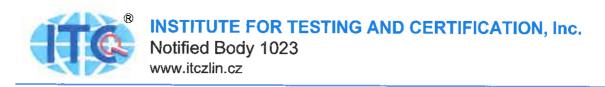
Protection function:

Eye and face protection for basic use + increased robustness and protection against high speed particles (low energy impact - F).

Type of filter (VISOR): with UV filtering effect (optical class 2, scale number 2 - 1.2)

Classification:

Baymax Safety Glasses, type: S 400 is classified as PPE Category II by the manufacturer.



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Design:



2. Technical documentation

Technical documentation was submitted in the English language to assess the conformity of the Baymax Safety Glasses, type: S 400 in April 2021. The file of technical documentation contains the items in according to Annex III of the Regulation (EU) 2016/425 of the European Parliament and of the Council.

- 3. Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC
- 3.1 Basic requirements for the product and its specification in technical specifications
 Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on
 personal protective equipment and repealing Council Directive 89/686/EEC setting out technical requirements for personal protective equipment.

Tables No. 1 through 3 state the analysis of applicability of basic requirements according to Annex II of Regulation (EU) 2016/425 in the right column, supplemented in case of applicable requirements by articles of harmonised standards stated in their harmonisation annex ZA or

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other technical specifications used for proving the conformity with respective partial requirement. "A" letter in the third column of the tables means that these requirements has been used for the given PPE, the "N/A" abbreviation (not applicable) means the requirement does not apply to the given PPE because it is irrelevant for the given intended use and/or the material used.

Column 4 of Tables No. 1 – 3 states the articles of harmonised standards which are linked, by means of cross links in the harmonisation annex ZA, to the respective basic requirement of Regulation (EU) 2016/425. Meeting these articles of the harmonised standard proves the conformity of the product with the given basic requirement stated in the right column.

The fifth column of Tables No. 1-3 states the articles of non-harmonised technical specifications by which the manufacturer proves the conformity with the respective basic requirement which is not included in harmonisation. These can be articles of non-harmonised national or international standards as well as articles of harmonised standards which are not connected with the given requirement by a link in the harmonisation annex ZA. In extraordinary cases, the respective basic requirement can be set quite specifically by the Regulation so the conformity can be assessed directly with this article of the Regulation without any necessity to specify the required by means of a harmonised standard or other technical specification.

in case of applicable requirements, the last column of Tables No. 1– 3 states the assessment of the given requirement, whether PPE passes or does not pass. "P" letter means PPE passes the given requirement, "N/P" means it does not pass it.

Table 1: Overview of basic requirements and technical specifications used in the PPE design. General requirements applicable to all PPE

Require- ment number in Annex II	Requirement description	Applica- tion A - N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
1.1	Design principles	A	EN 166 art. 6.1, 6.2, 6.3 EN 170, Annex B		Р
1.1.1	Ergonomics	А	EN 166 art. 6.3, 7.1.1 EN 170, Annex B		Р
1.1.2	Levels and classes of protection	Α	EN 166 art. 7.1, 7.2		Р
1.1.2.1	Optimum level of pro- tection	Α	EN 166 art. 7.1, 7.2 EN 170, art. 5		Р
1.1.2.2	Classes of protection appropriate to different levels of risks	А	EN 166 art. 7.1, 7.2 EN 170, art. 5, Annex B		Р
1.2	Innocuousness of PPE	A		See requirement 1.2.1, 1.2.1.1, 1.2.1.2 and 1.2.1.3 below	Р
1.2.1	Absence of risks and other inherent nuisance factors	A		See requirement 1.2.1.1, 1.2.1.2 and 1.2.1.3 below	Р
1.2.1.1	Suitable constituent materials	Α	EN 166 art. 6.2		Р
1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	А	EN 166 art. 6.1		Р

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Require- ment number in Annex II	Requirement descrip- tion	Applica- tion A - N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P – N/P
1.2.1.3	Maximum permissible user impediment	А	EN 166 art. 6.3, 7.1.1		Р
1.3	Comfort and effective- ness	Α	EN 166 art. 6.3, 7.1.1		Р
1.3.1	Adaptation of PPE to user morphology	Α	EN 166 art. 6.3, 7.1.1		P
1.3.2	Lightness and design strength	Α	EN 166 art. 7.1.4, 7.2.2		Р
1.3.3	Compatibility of different classes or types of PPE designed for simultane- ous use	А		Direct assessment according to the art. 1.3.3, Annex II of PPE Regulation	Р
1.3.4	Protective clothing con- taining removable pro- tectors	N/A			
1.4	Manufacturer's instruc- tions and information	Α	EN 166 art. 10		Р

Table 2: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements common to several classes or types of PPE

Require- ment number in Annex II	Requirement description	Applica- tion A N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
2.1	PPE incorporating adjustment systems	Α	EN 166 art. 6.3		Р
2.2	PPE enclosing the parts of the body to be pro- tected	N/A			
2.3	PPE for the face, eyes and respiratory system	А	EN 166 all articles + 7.2.2 (except of art. 7.2) EN 170, art. 5.2		Р
2.4	PPE subject to ageing	Α	EN 166 art. 7.1.5		Р
2.5	PPE which may be caught up during use	N/A		_	
2.6	PPE for use in poten- tially explosive atmos- pheres	N/A			_
2.7	PPE intended for rapid intervention or to be put on or removed rapidly	N/A	,		
2.8	PPE for intervention in very dangerous situations	N/A			
2.9	PPE incorporating com- ponents which can be adjusted or removed by the user	A	EN 166 art. 6.3		Р

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P – N/P
2.10	PPE for connection to complementary equip- ment external to the PPE	N/A			
2.11	PPE incorporating a fluid circulation system	N/A			=-
2.12	PPE bearing one or more identification markings or indicators directly or indirectly re- lating to health and safety	А	EN 166 art. 9 EN 170, art. 4		Р
2.13	PPE capable of signal- ling the user's presence visually	N/A			· -
2.14	'Multi-risk' PPE	А	EN 166 all articles + 7.2.2 (except of art. 7.2)	EN 170	Р

Table 3: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements specific to particular risks

Require- ment number in Annex II	Requirement description	Applica- tion A - N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
3.1	Protection against me- chanical impact	Α	EN 166 art. 7.1.4, 7.2.2		Р
3.1.1	Impact caused by fall- ing or ejected objects and collision of parts of the body with an obsta- cle	А	EN 166 art. 7.1.4, 7.2.2		Р
3.1.2	Falls	N/A			
3.1.2.1	Prevention of falls due to slipping	N/A			
3.1.2.2	Prevention of falls from a height	N/A			
3.1.3	Mechanical vibration	N/A			
3.2	Protection against static compression of part of the body	N/A			_
3.3	Protection against me- chanical injuries	N/A			
3.4	Protection in liquids	N/A			
3.4.1	Prevention of drowning	N/A			
3.4.2	Buoyancy aids	N/A			
3.5	Protection against the harmful effects of noise	N/A			· · · ·
3.6	Protection against heat and/or fire	N/A			

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P – N/P
3.6.1	PPE constituent materi- als and other compo- nents	N/A			
3.6.2	Complete PPE ready for use	N/A			
3.7	Protection against cold	N/A			
3.7.1	PPE constituent materi- als and other compo- nents	N/A			,
3.7.2	Complete PPE ready for use	N/A			
3.8	Protection against elec- tric shock	N/A			
3.8.1	Insulating equipment	N/A		_	
3.8.2	Conductive equipment	N/A			
3.9	Radiation protection	Α	EN 166 art. 7.2.1 EN 170, art. 5, Annex B		Р
3.9.1	Non-ionising radiation	Α	EN 166 art. 7.2.1 EN 170, art. 5, Annex B		Р
3.9.2	lonising radiation	N/A			
3.9.2.1	Protection against ex- ternal radioactive con- tamination	N/A			-
3.9.2.2	Protection against ex- ternal irradiation	N/A			
3.10	Protection against sub- stances and mixtures which are hazardous to health and against harmful biological agents	N/A			
3.10.1	Respiratory protection	N/A			
3.10.2	Protection against cuta- neous and ocular con- tact	N/A			
3.11	Diving equipment	N/A			

When designing the product, the manufacturer applied the following standard harmonised to Regulation (EU) 2016/425:

EN 166:2001 Personal eye protection – Specifications

EN 170:2002 Personal eye-protection – Ultraviolet filters - Transmittance requirements and recommended use

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3.2 Indicators specifying basic requirements and test methods

Indicators specifying applicable basic requirements (marked with "A" in the third column of Tables No. 1 through 3):

· Design and manufacturing requirements

- General construction
- Materials

Basic requirements

- Field of vision
- Optical requirements
 - Spherical refractive power
 - Astigmatic refractive power
 - Prismatic refractive power
 - Transmittance
 - Variations in transmittance
 - Diffusion of light
- Quality of material and surface
- Increased robustness
- Resistance to ageing
 - Stability at an elevated temperature
 - Resistance to ultraviolet radiations
- Resistance to ignition
- Special requirement
- Protection against high-speed particles (low energy impact F)
- Lateral protection
- Marking
- Information supplied by the manufacturer

3.3 Test methods

Table No. 4: Overview of test methods used for evaluating the materials and product

Properties	Test method
Design and manufacturing requirements	
- General construction	visual assessment
- Materials	visual assessment
Basic requirements	
- Field of vision	art. 18 EN 168
Optical requirements	
 Spherical refractive power 	
 Astigmatic refractive power 	art. 3 EN 167
 Prismatic refractive power 	
- Transmittance	art. 6 EN 167
 Variation in transmittance 	art. 7 EN 167
- Diffusion of light	art. 4 EN 167
Quality of material and surface	art. 5 EN 167

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Table No. 4: Continuation from page 8.

Overview of test methods used for evaluating the materials and product

Properties	Test method
Increased robustness	art. 3.1 EN 168
Resistance to ageing	
- Stability at an elevated temperature	art. 5 EN 168
- Resistance to ultraviolet radiations	art. 6 EN 168
Resistance to ignition	art. 7 EN 168
Special requirement	
- Lateral protection	art. 19 EN 168
 Protection against high speed particles (low energy impact – F) 	art. 9.2.1 EN 168
Marking	visual assessment
Information supplied by the manufacturer	visual assessment

3.4 Place and scope of sampling

Samples of the assessed product were delivered by the Customer on 2021-04-01 in compliance with the instruction of the designated worker of the NB at the quantity 12 pieces of Baymax Safety Glasses, type: S 400.

With regard to the fact that this is the EU type examination by a notified body, the Customer asking for assessing the conformity is responsible for selecting a sample (or prototype). The test examination does not include inspection activity focused on the conformity of properties of all products introduced to the market with the assessed (proto)type.

3.5 Place of performing the tests and assessment

Tests were performed in the following accredited testing laboratories: Institute for testing and certification, a.s., Zlín, Czech Republic and Meopta – optika, s.r.o., Přerov, Czech Republic.

The documentation was examined and visual inspection and product type assessment were performed in Institute for testing and certification, a.s., Czech Republic.

3.6 Results of tests and assessment

Results of the personal protective equipment evaluation are summarised in Table No. 5. Test methods stated in respective part of Table No. 4 were used.

Table 5: Results of the evaluation of the Baymax Safety Glasses, type: S 400

Significant property	Measuring unit	Requirement	Determination / Document No.
Design and manufacture / innocuousness, comfort, ergo- nomics /	_	art. 6 EN 166	pass / D1, D2, D3
General construction	-	art. 6.1 EN 166	pass / D1, D2
Materials	-	art. 6.2 EN 166	pass / D1, D3

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Table 5: Continuation from page 9. Results of the evaluation of the Baymax Safety Glasses, type: S 400

Significant property	Measuring unit	Requirement	Determination / Document No.
Field of vision		art. 7.1.1 EN 166 Eye-protector shall exhibit: - minimum field of vision defined by the two ellipses in Figure 1 - placing of the ellipses shall be in compliance with requirements of standard	pass / D1 Eye protector exhibit: -larger than minimal field of vision defined by the two ellipses in figure 1 -placing of the ellipses comply with requirements of standard
Optical requirements			
- Spherical refractive power	m -1	art. 7.1.2.1.2 EN 166 Table 3 Optical class 2:	pass / D1
- Astigmatic refractive power	m ⁻¹	±0,12 art. 7.1.2.1.2 EN 166 Table 3 Optical class 2:	max0,06 pass / D1 (optical class 2)
- Prismatic refractive power	cm/m	0,12 art. 7.1.2.1.2. EN 166 Optical class 2: Horizontal (base in): 0,25 Vertical: 0,25	max. 0,12 pass / D1 Horizontal (base in): max. 0,25 Vertical: max. 0,15
- Transmittance (VIS)	%	art. 5 EN 170, table 1 ≥74.4	pass / D5 87,5
- Transmittance (UV)	%	art. 5 EN 170, table 1 Scale number 2 – 1,2 313 nm ≤ 0,003 365 nm ≤ 50	pass / D1 0 0,9
- Variation in transmittance	%	art. 7.1.2.2.3.1 EN 166 Table 4 max. ±5	pass / D1
- Diffusion of light	cd.m ⁻² .lx ⁻¹	art. 7.1.2.3 EN 166 max. 0,75	pass / D1 max. 0,75
- Quality of material and surface		art. 7.1.3 EN 166 visor shall be free from any significant defects likely to impair vision in use	pass / D1 visor is without any significant defects likely to impair vision in use

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Table 5: Continuation from page 10. Results of the evaluation of the Baymax Safety Glasses, type: S 400

Significant property	Measuring unit	Requirement	Determination / Document No.
Increased robustness Temperature: -5 °C / 55 °C	×	art. 7.1.4.2.2 EN 166 The following defects shall not occur: - fracture - ocular deformation - lateral protection failure	pass / D1 Without: - ocular fracture - ocular deformation - frame deformation - defects of lateral covering
Resistance to ageing			
Stability at an elevated temperature (55 °C)	-	art. 7.1.5.1 EN 166 visor shall show no apparent deformation	pass / D4 without apparent deformation
Resistance to ultraviolet radiations	- Indiana de la company	art. 7.1.5.2 EN 166	pass / D1
-Relative change of the luminous transmittance in visible spectrum	%	±5	-1,5
- Diffusion of light	cd.m ⁻² ,lx ⁻¹	max. 0,75	max. 0,75
Resistance to ignition	-	art. 7.1.7 EN 166 no part of visor ignites or continues to glow after removal of the steel rod	pass / D4 without ignition and continuing to glow after removal of the steel rod
High speed particles Low energy impact – F	8	art. 7.2.2 EN 166 The following defect shall not occur: - fracture - ocular deformation - lateral protection failure	pass / D1 Without: - ocular fracture - ocular deformation - ocular housing or frame failure - lateral protection failure
Lateral protection	74°.	art. 7.2.8 EN 166 is satisfactory if the eye- protector prevents the tip of the rod from touching the impact regions on the head- form	pass / D1 lateral protection prevents the tip of the rod from touching the impact regions on the head-form
Marking	<u>-</u>	art. 9 ČSN EN 166	pass / D2
Information for users		art. 10 EN 166	pass / D2

The bases for the evaluations stated in Table No. 5 are the test results specified in the following documents:

- D1: Evaluation Report Ref. No. 723301659/2019 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2019-02-19
- D2: Record of assessment No. 723302116/A issued by Institute for testing and certification, a. s. Zlín on 2021-04-22
- D3: Declaration about innocuousness issued by BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- D4: Accredited Laboratory Test Report Ref. No. 723302116/01 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2021-04-15
- D5: Test Report No. KX E 2115 issued by Meopta optika, s.r.o., Přerov, Czech Republic, on 2021-04-26

Ref. No. 723302116/A/2021 Page 12 of 12

3.7 Assessment of product conformity with technical specifications and basic requirements

The assessed product – Baymax Safety Glasses, type: S 400 – complies with the requirements set by the following technical standard with regard to its design and submitted documentation:

EN 166:2001 Personal eye protection - Specifications

EN 170:2002 Personal eye-protection - Ultraviolet filters - Transmittance requirements and recommended use

Results of the evaluation of the personal protective equipment stated in Table No. 5 hereof prove the conformity of all indicators specifying general basic requirements of Regulation (EU) 2016/425, additional basic requirements common for more types of PPE and additional basic requirements for special risks applicable to the evaluated type of product.

4. Conclusion

Notified Body 1023 performed EU Type-Examination of the personal protective equipment

Baymax Safety Glasses Type: S 400

Technical specifications used by the manufacturer are in compliance with basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The sample of the personal protective equipment was produced in compliance with the technical documentation of the manufacturer and can be fully safely used for its intended purpose.

The sample of the personal protective equipment meets all the provisions of the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Notified Body NB 1023 decided to issue the EU Type-Examination Certificate.

5. List of documents used for the preparation for the Evaluation Report

- Application for the EU Type-Examination BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ Şti. company dated on 2021-03-31
- Technical documentation issued by the BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ company dated in April 2021
- Check list issued by BAYEM GRUP IÇ VE DIŞ TİC. LTD. STİ company on 2021-04-22
- Evaluation Report Ref. No. 723301659/2019 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2019-02-19
- Record of assessment No. 723302116/A issued by Institute for testing and certification, a.
 s. Zlín on 2021-04-22
- Declaration about innocuousness issued by BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- Accredited Laboratory Test Report Ref. No. 723302116/01 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2021-04-15
- Test Report No. KX E 2115 issued by Meopta optika, s.r.o., Přerov, Czech Republic, on 2021-04-26



Notified Body No. 1023 INSTITUTE FOR TESTING AND CERTIFICATION, Inc. trida Tomase Bati 299, Louky, 763 02 Zlin, Czech Republic

EU Type-Examination Certificate

No. 21 0217 T/NB

issued in the compliance with the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC, for personal protective equipment of category II:

Work safety glasses - protective eyewear Type: Baymax S800 Comfort

Manufacturer:

BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ Yunus Emre Mah. Ulubey Cad. Enlab Apt. No:10/1, 34791 Sancaktepe, İstanbul, TURKEY

Tax Registration No: 1520288042

This Certificate confirms that above referenced personal protective equipment (PPE) fulfils the essential health and safety requirements as they are stated in the Regulation (EU) 2016/425 of the European Parliament and of the Council, specified in detail in the harmonized technical standard:

[visor without filtering effect - optical class 2, basic use + increased robustness 5, and protection against high speed particles (low energy impact - F]

The PPE is produced in compliance with the manufacturer's technical file and it can be used in complete safety for its intended purpose. The detailed product descriptions, the results of technical file examination as well as the test results including their evaluation are presented in the ITC's Evaluation Report No. 723302116/B/2021 that is an integral part of this Certificate.

Condition of this certificate use and related information:

1. It applies only to the above referenced type of category if PPE submitted to test

2. It does not imply that the Notified Body has performed any surveillance or control of PPE manufacture.

The manufacturer is obligated to assure that all PPEs of the respective type conform to the type approved by this Certificate.

4. The applicant shall inform the Notified Body of all technology changes in manufacture of the approved type and as consequence of the technical advances he shall regularly keep himself informed of any standard changes as well as modifications of testing methods conducted by the Notified Body, which shall approve these changes in necessary cases by the amendment of this Certificate, which shall approve these changes in necessary cases by the amendment of this Certificate.

 After fulfilling the relevant EU legislation requirements, the manufacturer shall affix to each PPE, of the above referenced type, the CE-marking according to principles laid down in Regulation (EC) no. 765/2008.

issued in Ziin, on 24th May 2021 Valid until: 23rd May 2026



Mgr. Viří Heš Representative of the Notified Body No. 1023



INSTITUTE FOR TESTING AND CERTIFICATION, INC.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

EVALUATION REPORT

Ref. No.: 723302116/B/2021

Customer: BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ

Yunus Emre Mah. Ulubey Cad. Enlab Apt.

No:10/1, 34791 Sancaktepe, Istanbul

TURKEY

Product: Work safety glasses - protective eyewear

Type: Baymax S800 Comfort

Conformity

assessed by: Dipl. Ing. Daniela Olšanová

Issued on: 2021-05-24

NOTIFIED TO TO THE STING AND CERTIFICATION OF THE STING AND CE

Mgr. Viří Heš Representative of Notified Body No. 1023

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Ref. No. 723302116/B/2021

Page 2 of 12

Introduction

This Evaluation Report was issued on the basis of Application No. 723302116 for the assessment of conformity of personal protective equipment (PPE) with the basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

This assessment should prove the fulfilment of EU legislation requirements for the purpose of the access of the assessed products to the EU market.

This is a recertification of already assessed Work safety glasses - protective eyewear, type: Baymax S800 Comfort see EU Type-Examination Certificate No. 20 0114 T/NB. The following properties were tested within this order: resistance to ageing, stability at an elevated temperature, resistance to ignition, optical requirements – transmittance. In addition, general construction, marking and user information were assessed. Other test results were taken from Evaluation Report No. 723301729/2020.

1. Identification of assessed personal protective equipment

A detailed description of the design and structure, including the drawing documentation and specifications of material used, is given in the file of technical documentation of the product Work safety glasses - protective eyewear, type: Baymax S800 Comfort.

The submitted documentation covers the following models and alternatives of the product:

Sample No. 723302116/B

Work safety glasses - protective eyewear, type: Baymax S800 Comfort

Material specification:

Sample number	Name of the product	Material
723302116/B	Work safety glasses - protective eyewear, type: Baymax S800	Polycarbonates (PC)

Protection function:

Eye and face protection for basic use + increased robustness and protection against high speed particles (low energy impact – F).

Type of filter (VISOR): without filtering effect (optical class 2).

Classification:

Work safety glasses - protective eyewear, type: Baymax S800 Comfort is classified as PPE Category II by the manufacturer.

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Design:



2. Technical documentation

Technical documentation was submitted in the English language to assess the conformity of the Work safety glasses - protective eyewear, type: Baymax S800 Comfort in April 2021. The file of technical documentation contains the items in according to Annex III of the Regulation (EU) 2016/425 of the European Parliament and of the Council.

- 3. Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC
- 3.1 Basic requirements for the product and its specification in technical specifications

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC setting out technical requirements for personal protective equipment.

Tables No. 1 through 3 state the analysis of applicability of basic requirements according to Annex II of Regulation (EU) 2016/425 in the right column, supplemented in case of applicable requirements by articles of harmonised standards stated in their harmonisation annex ZA or other technical specifications used for proving the conformity with respective partial requirement. "A" letter in the third column of the tables means that these requirements has been used for the given PPE, the "N/A" abbreviation (not applicable) means the requirement does not apply to the given PPE because it is irrelevant for the given intended use and/or the material used.

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Column 4 of Tables No. 1-3 states the articles of harmonised standards which are linked, by means of cross links in the harmonisation annex ZA, to the respective basic requirement of Regulation (EU) 2016/425. Meeting these articles of the harmonised standard proves the conformity of the product with the given basic requirement stated in the right column.

The fifth column of Tables No. 1 – 3 states the articles of non-harmonised technical specifications by which the manufacturer proves the conformity with the respective basic requirement which is not included in harmonisation. These can be articles of non-harmonised national or international standards as well as articles of harmonised standards which are not connected with the given requirement by a link in the harmonisation annex ZA. In extraordinary cases, the respective basic requirement can be set quite specifically by the Regulation so the conformity can be assessed directly with this article of the Regulation without any necessity to specify the required by means of a harmonised standard or other technical specification.

In case of applicable requirements, the last column of Tables No. 1– 3 states the assessment of the given requirement, whether PPE passes or does not pass. "P" letter means PPE passes the given requirement; "N/P" means it does not pass it.

Table 1: Overview of basic requirements and technical specifications used in the PPE design. General requirements applicable to all PPE

Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P – N/P
1.1	Design principles	А	EN 166 art. 6.1, 6.2, 6.3		Р
1.1.1	Ergonomics	Α	EN 166 art. 6.3, 7.1.1		Р
1.1.2	Levels and classes of protection	Α	EN 166 art. 7.1, 7.2		Р
1.1.2.1	Optimum level of pro- tection	А	EN 166 art. 7.1, 7.2		Р
1.1.2.2	Classes of protection appropriate to different levels of risks	Α	EN 166 art. 7.1, 7.2		Р
1.2	Innocuousness of PPE	А		See requirement 1.2.1, 1.2.1.1, 1.2.1.2 and 1.2.1.3 below	Р
1.2.1	Absence of risks and other inherent nuisance factors	А		See requirement 1.2.1.1, 1.2.1.2 and 1.2.1.3 below	Р
1.2.1.1	Suitable constituent materials	Α	EN 166 art. 6.2		Р
1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	А	EN 166 art. 6.1		Р
1.2.1.3	Maximum permissible user impediment	Α	EN 166 art. 6.3, 7.1.1		Р
1.3	Comfort and effective- ness	Α	EN 166 art. 6.3, 7.1.1		Р
1.3.1	Adaptation of PPE to user morphology	Α	EN 166 art. 6.3, 7.1.1		Р

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Assess- ment P – N/P
1.3.2	Lightness and design strength	А	EN 166 art. 7.1.4, 7.2.2	Р
1.3.3	Compatibility of different classes or types of PPE designed for simultane- ous use	N/A		
1.3.4	Protective clothing con- taining removable pro- tectors	N/A		Ų
1.4	Manufacturer's instruc- tions and information	Α	EN 166 art. 10	Р

Table 2: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements common to several classes or types of PPE

Require- ment number in Annex II	Requirement descrip- tion	Applica- tion A - N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
2.1	PPE incorporating ad- justment systems	Α	EN 166 art. 6.3		Р
2.2	PPE enclosing the parts of the body to be protected	N/A)
2.3	PPE for the face, eyes and respiratory system	А	EN 166 all articles + 7.2.2 (except of art. 7.2)		Р
2.4	PPE subject to ageing	Α	EN 166 art. 7.1.5		Р
2.5	PPE which may be caught up during use	N/A		· ·	·
2.6	PPE for use in poten- tially explosive atmos- pheres	N/A			
2.7	PPE intended for rapid intervention or to be put on or removed rapidly	N/A			
2.8	PPE for intervention in very dangerous situations	N/A			
2.9	PPE incorporating com- ponents which can be adjusted or removed by the user	А	EN 166 art. 6.3		Р
2.10	PPE for connection to complementary equip- ment external to the PPE	N/A			
2.11	PPE incorporating a fluid circulation system	N/A			

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	ment
2.12	PPE bearing one or more identification markings or indicators directly or indirectly re- lating to health and safety	A	EN 166 art. 9		Р
2.13	PPE capable of signal- ling the user's presence visually	N/A			
2.14	'Multi-risk' PPE	А	EN 166 all articles + 7.2.2 (except of art. 7.2)		Р

Table 3: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements specific to particular risks

Require- ment number in Annex II	Requirement descrip- tion	Applica- tion A N/A	nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P – N/P
3.1	Protection against me- chanical impact	Α	EN 166 art. 7.1.4, 7.2.2		Р
3.1.1	Impact caused by fall- ing or ejected objects and collision of parts of the body with an obsta- cle	А	EN 166 art. 7.1.4, 7.2.2		Р
3.1.2	Falls	N/A			
3.1.2.1	Prevention of falls due to slipping	N/A			
3.1.2.2	Prevention of falls from a height	N/A			
3.1.3	Mechanical vibration	N/A			
3.2	Protection against static compression of part of the body	N/A			
3.3	Protection against me- chanical injuries	N/A			
3.4	Protection in liquids	Α			Р
3.4.1	Prevention of drowning	N/A			
3.4.2	Buoyancy aids	N/A			-
3.5	Protection against the harmful effects of noise	N/A			
3.6	Protection against heat and/or fire	N/A			
3.6.1	PPE constituent materials and other components	N/A			·
3.6.2	Complete PPE ready for use	N/A			
3.7	Protection against cold	N/A			

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Require- ment number in Annex II	Requirement descrip- tion	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
3.7.1	PPE constituent materi- als and other compo- nents	N/A			
3.7.2	Complete PPE ready for use	N/A			
3.8	Protection against elec- tric shock	N/A			
3.8.1	Insulating equipment	N/A			
3.8.2	Conductive equipment	N/A			
3.9	Radiation protection	N/A			
3.9.1	Non-ionising radiation	N/A			
3.9.2	lonising radiation	N/A			
3.9.2.1	Protection against ex- ternal radioactive con- tamination	N/A			
3.9.2.2	Protection against ex- ternal irradiation	N/A			-
3.10	Protection against sub- stances and mixtures which are hazardous to health and against harmful biological agents	N/A			
3.10.1	Respiratory protection	N/A			
3.10.2	Protection against cuta- neous and ocular con- tact	N/A			
3.11	Diving equipment	N/A			

When designing the product, the manufacturer applied the following standard harmonised to Regulation (EU) 2016/425:

EN 166:2001 Personal eye protection – Specifications

3.2 Indicators specifying basic requirements and test methods

Indicators specifying applicable basic requirements (marked with "A" in the third column of Tables No. 1 through 3):

Design and manufacturing requirements

- General construction
- Materials
- Basic requirements
- Field of vision
- Optical requirements
 - Spherical refractive power
 - Astigmatic refractive power
 - Prismatic refractive power
 - Transmittance
 - Diffusion of light

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- Basic requirements (continuation)
- Quality of material and surface
- Increased robustness
- Resistance to ageing
 - Stability at an elevated temperature
 - Resistance to ultraviolet radiations
- Resistance to ignition
- Resistance to corrosion
- Special requirement
- Protection against high speed particles (low energy impact F)
- Lateral protection
- Marking
- Information supplied by the manufacturer

3.3 Test methods

Table No. 4: Overview of test methods used for evaluating the materials and product

Properties	Test method
Design and manufacturing requirements	
- General construction	visual assessment
- Materials	visual assessment
Basic requirements	
- Field of vision	art. 18 EN 168
Optical requirements	от при при при при при при при при при при
- Spherical refractive power	O EN 407
- Astigmatic refractive power	art. 3 EN 167
- Prismatic refractive power	
- Transmittance	art. 6 EN 167
- Diffusion of light	art. 4 EN 167
Quality of material and surface	art. 5 EN 167
Increased robustness	art. 3.2 EN 168
Resistance to ageing	
- Stability at an elevated temperature	art. 5 EN 168
- Resistance to ultraviolet radiations	art. 6 EN 168
Resistance to ignition	art. 7 EN 168
Resistance to corrosion	art. 8 EN 168
Special requirement	
- Protection against high speed particle	es art. 9.2.1 EN 168
(low energy impact – F)	- 4 40 EN 400
- Lateral protection	art. 19 EN 168
Marking	visual assessment
Information supplied by the manufacturer	visual assessment

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3.4 Place and scope of sampling

Samples of the assessed product were delivered by the Customer on 2021-04-01 in compliance with the instruction of the designated worker of the NB at the quantity 12 pieces of Work safety glasses - protective eyewear, type: Baymax S800 Comfort.

With regard to the fact that this is the EU type examination by a notified body, the Customer asking for assessing the conformity is responsible for selecting a sample (or prototype). The test examination does not include inspection activity focused on the conformity of properties of all products introduced to the market with the assessed (proto)type.

3.5 Place of performing the tests and assessment

Tests were performed in the following accredited testing laboratories: Institute for testing and certification, a.s., Zlín, Czech Republic and Meopta – optika, s.r.o., Přerov, Czech republic.

The documentation was examined and visual inspection and product type assessment were performed in Institute for testing and certification, a.s., Czech Republic.

3.6 Results of tests and assessment

Results of the personal protective equipment evaluation are summarised in Table No. 5. Test methods stated in respective part of Table No. 4 were used.

Table 5: Results of the evaluation of the Work safety glasses - protective eyewear, type: Baymax S800 Comfort

Significant property	Measuring unit	Requirement	Determination / Document No.
Design and manufacture / innocuousness, comfort, ergo- nomics /	_	art. 6 EN 166	pass / D1, D2, D3
General construction	-	art. 6.1 EN 166	pass / D1, D2
Materials	-	art. 6.2 EN 166	pass / D1, D3
Field of vision	-	art. 7.1.1 EN 166 Eye-protector shall exhibit: - minimum field of vision defined by the two ellip- ses in Figure 1 - placing of the ellipses shall be in compliance with requirements of standard	pass / D1 Eye protector exhibit: -larger than minimal field of vision defined by the two ellipses in figure 1 -placing of the ellipses comply with requirements of standard



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Table 5: Continuation from page 9. Results of the evaluation of the Work safety glasses - protective eyewear, type: Baymax S800 Comfort

Significant property	Measuring unit	Requirement	Determination / Document No.
Optical requirements		The second state and the second state and the second state at the	And the state of t
- Spherical refractive power	m⁻¹	art. 7.1.2.1.2 EN 166 Table 3 Optical class 2: max. ±0,12	pass / D1 (optical class 2) -0,11
- Astigmatic refractive power	m ⁻¹	art. 7.1.2.1.2 EN 166 Table 3 Optical class 2: 0,12	pass / D1 0,02
- Prismatic refractive power	cm/m	art. 7.1.2.1.2. EN 166 Optical class 2: Horizontal (base out): 1,00 Vertical: 0,25	pass / D1 Horizontal (base out): 0,04 Vertical: 0,04
- Transmittance (VIS)	%	art. 7.1.2.2.1 EN 166 >74,4	pass / D5 87,3
- Diffusion of light	cd.m ⁻² .lx ⁻¹	art. 7.1.2.3 EN 166 max. 0,50	pass / D1 0,04
Quality of material and sur- face		art. 7.1.3 EN 166 visor shall be free from any significant defects likely to impair vision in use	pass / D1 visor is without any significant defects likely to impair vision in use
Increased robustness Temperature: -5 °C / 55 °C	_	art. 7.1.4.2.2 EN 166 The following defect shall not occur: - fracture - ocular deformation - lateral protection failure	pass / D1 without fracture, ocular deformation and lateral protection failure
Resistance to ageing		-	
Stability at an elevated temperature (55 °C)	-	art. 7.1.5.1 EN 166 visor shall show no apparent deformation	pass / D4 without apparent deformation
Resistance to ultraviolet radiations		art. 7.1.5.2 EN 166	pass / D1
-Relative change of the lumi- nous transmittance in visible spectrum	%	±5	max. 0,3
- Diffusion of light	cd.m ⁻² .lx ⁻¹	max. 0,50	max. 0,04
Resistance to corrosion	-	art. 7.1.6 EN 166 all metal parts of the glasses shall display smooth surfaces, free from corrosion	pass / D1 all metal parts display smooth surfaces, without corrosion

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Table 5: Continuation from page 10. Results of the evaluation of the Work safety glasses - protective eyewear, type: Baymax S800 Comfort

Significant property	Measuring unit	Requirement	Determination / Document No.
Resistance to Ignition	-	art. 7.1.7 EN 166 no part of visor ignites or continues to glow after removal of the steel rod	pass / D1 without ignition and continuing to glow after removal of the steel rod
High speed particles Low energy impact – F	*	art. 7.2.2 EN 166 The following defect shall not occur: - fracture - ocular deformation - lateral protection failure	pass / D1 without fracture, ocular deformation and lateral protection failure
Lateral protection	-	art. 7.2.8 EN 166 is satisfactory if the eye- protector prevents the tip of the rod from touching the impact regions on the head-form	pass / D1 lateral protection prevents the tip of the rod from touching the impact regions on the head-form
Marking	-	art. 9 EN 166	pass / D2
Information for users		art. 10 EN 166	pass / D2

The bases for the evaluations stated in Table No. 5 are the test results specified in the following documents:

- D1: Evaluation Report Ref. No. 723301729/2020 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2020-03-19
- D2: Record of assessment No. 723302116/B issued by Institute for testing and certification, a. s. Zlín on 2021-04-22
- D3: Declaration about innocuousness issued by BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- D4: Accredited Laboratory Test Report Ref. No. 723302116/01 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2021-04-15
- D5: Test Report No. KX E 2115 issued by Meopta optika, s.r.o., Přerov, Czech Republic, on 2021-04-26

3.7 Assessment of product conformity with technical specifications and basic requirements

The assessed product – Work safety glasses - protective eyewear, type: Baymax S800 Comfort – complies with the requirements set by the following technical standard with regard to its design and submitted documentation:

EN 166:2001 Personal eye protection – Specifications

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Results of the evaluation of the personal protective equipment stated in Table No. 5 hereof prove the conformity of all indicators specifying general basic requirements of Regulation (EU) 2016/425, additional basic requirements common for more types of PPE and additional basic requirements for special risks applicable to the evaluated type of product.

4. Conclusion

Notified Body 1023 performed EU Type-Examination of the personal protective equipment

Work safety glasses - protective eyewear

Type: Baymax S800 Comfort

Technical specifications used by the manufacturer are in compliance with basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The sample of the personal protective equipment was produced in compliance with the technical documentation of the manufacturer and can be fully safely used for its intended purpose.

The sample of the personal protective equipment meets all the provisions of the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Notified Body NB 1023 decided to issue the EU Type-Examination Certificate.

5. List of documents used for the preparation for the Evaluation Report

- Application for the EU Type-Examination BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ Şti.
 company dated on 2021-03-31
- Technical documentation issued by the BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ company in April 2021
- Check list issued by BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- Evaluation Report Ref. No. 723301659/2019 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2019-02-19
- Record of assessment No. 723302116/A issued by Institute for testing and certification, a.
 s. Zlín on 2021-04-22
- Declaration about innocuousness issued by BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- Accredited Laboratory Test Report Ref. No. 723302116/01 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2021-04-15
- Test Report No. KX E 2115 issued by Meopta optika, s.r.o., Přerov, Czech Republic, on 2021-04-26

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Notified Body No. 1023 INSTITUTE FOR TESTING AND CERTIFICATION, Inc. trida Tomase Bati 299, Louky, 763 02 Zlin, Czech Republic

EU Type-Examination Certificate

No. 21 0218 T/NB

issued in the compliance with the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC, for personal protective equipment of category II:

Work safety glasses - protective eyewear Type: Baymax S1100 QUATTRO

Manufacturer:

BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ Yunus Emre Mah. Ulubey Cad. Enlab Apt. No:10/1, 34791 Sancaktepe, İstanbul, TÜRKEY

Tax Registration No: 1520288042

This Certificate confirms that above referenced personal protective equipment (PPE) fulfils the essential health and safety requirements as they are stated in the Regulation (EU) 2016/425 of the European Parliament and of the Council, specified in detail in the harmonized technical standards:

EN 166:2001 [visor with UV filtering effect - optical class 2, basic use + increased robustness S and protection

against high speed particles (low energy impact – F]

EN 170:2002 [transparent visor - scale number 2 - 1,2]

The PPE is produced in compliance with the manufacturer's technical file and it can be used in complete safety for its intended purpose. The detailed product descriptions, the results of technical file examination as well as the test results including their evaluation are presented in the ITC's Evaluation Report No. 723302116/D/2021 that is an integral part of this Certificate.

Condition of this certificate use and related information:

- 1. It applies only to the above referenced type of category II PPE submitted to test.
- 2. It does not imply that the Notified Body has performed any surveillance or control of PPE manufacture.
- The manufacturer is obligated to assure that all PPEs of the respective type conform to the type approved by this Certificate.
- 4. The applicant shall inform the Notified Body of all technology changes in manufacture of the approved type and as consequence of the technical advances he shall regularly keep himself informed of any standard changes as well as modifications of testing methods conducted by the Notified Body, which shall approve these changes in necessary cases by the amendment of this Certificate, which shall approve these changes in necessary cases by the amendment of this Certificate.
- After fulfilling the relevant EU legislation requirements, the manufacturer shall affix to each PPE, of the above referenced type, the CE-marking according to principles laid down in Regulation (EC) no. 765/2008.

Issued in Zlin, on 24th May 2021 Valid until: 23rd May 2026



Mgr. Jiří Heš Representative of the Notified Body No. 1023



INSTITUTE FOR TESTING AND CERTIFICATION, INC.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

EVALUATION REPORT

Ref. No.: 723302116/D/2021

Customer: BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ

Yunus Emre Mah. Ulubey Cad. Enlab Apt.

No:10/1, 34791 Sancaktepe, Istanbul

TURKEY

Product: Work safety glasses - protective eyewear

Type: Baymax S1100 QUATTRO

Conformity

assessed by: Dipl. Ing. Daniela Olšanová

Issued on: 2021-05-24

Mgr. Jiří Heš

Representative of Notified Body No. 1023

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Ref. No. 723302116/D/2021 Page 2 of 13

Introduction

This Evaluation Report was issued on the basis of Application No. 723302116 for the assessment of conformity of personal protective equipment (PPE) with the basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

This assessment should prove the fulfilment of EU legislation requirements for the purpose of the access of the assessed products to the EU market.

This is a recertification of already assessed Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO see EU Type-Examination Certificate No. 20 0115 T/NB. The following properties were tested within this order: resistance to ageing, stability at an elevated temperature, resistance to ignition, optical requirements – transmittance. In addition, general construction, marking and user information were assessed. Other test results were taken from Evaluation Report No. 723301730/2020.

1. Identification of assessed personal protective equipment

A detailed description of the design and structure, including the drawing documentation and specifications of material used, is given in the file of technical documentation of the product Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO.

The submitted documentation covers the following models and alternatives of the product:

Sample No. 723302116/D

Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO

Material specification:

Sample number	Name of the product	Materials
723302116/D	Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO	Handle and visor: polycar- bonate (PC) Nose part: polyvinylchlo- ride (PVC)

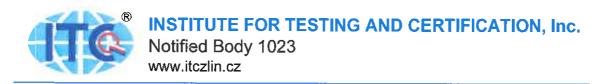
Protection function:

Eye and face protection for **basic use** + **increased robustness S** and protection against **high speed particles** (**low energy impact** – **F**).

Type of filter (VISOR): with UV filtering effect (optical class 2, scale number 2-1,2).

Classification:

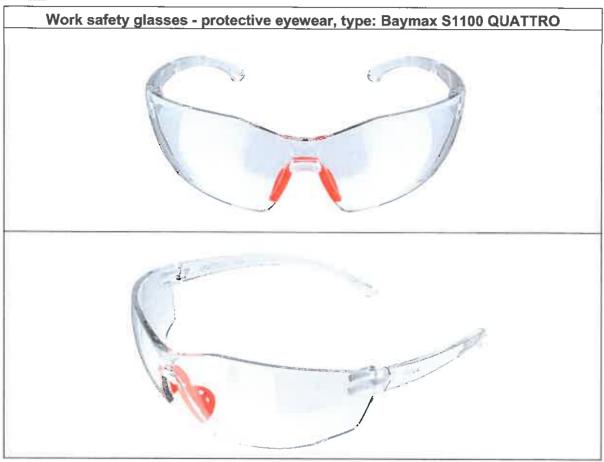
Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO is classified as PPE Category II by the manufacturer.



Ref. No. 723302116/D/2021

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Design:



2. Technical documentation

Technical documentation was submitted in the English language to assess the conformity of the Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO in April 2021. The file of technical documentation contains the items in according to Annex III of the Regulation (EU) 2016/425 of the European Parliament and of the Council.

- 3. Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC
- 3.1 Basic requirements for the product and its specification in technical specifications Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC setting out technical requirements for personal protective equipment.

Tables No. 1 through 3 state the analysis of applicability of basic requirements according to Annex II of Regulation (EU) 2016/425 in the right column, supplemented in case of applicable requirements by articles of harmonised standards stated in their harmonisation annex ZA or other technical specifications used for proving the conformity with respective partial requirement. "A" letter in the third column of the tables means that these requirements has been used

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for the given PPE, the "N/A" abbreviation (not applicable) means the requirement does not apply to the given PPE because it is irrelevant for the given intended use and/or the material used.

Column 4 of Tables No. 1-3 states the articles of harmonised standards which are linked, by means of cross links in the harmonisation annex ZA, to the respective basic requirement of Regulation (EU) 2016/425. Meeting these articles of the harmonised standard proves the conformity of the product with the given basic requirement stated in the right column.

The fifth column of Tables No. 1-3 states the articles of non-harmonised technical specifications by which the manufacturer proves the conformity with the respective basic requirement which is not included in harmonisation. These can be articles of non-harmonised national or international standards as well as articles of harmonised standards which are not connected with the given requirement by a link in the harmonisation annex ZA. In extraordinary cases, the respective basic requirement can be set quite specifically by the Regulation so the conformity can be assessed directly with this article of the Regulation without any necessity to specify the required by means of a harmonised standard or other technical specification.

In case of applicable requirements, the last column of Tables No. 1– 3 states the assessment of the given requirement, whether PPE passes or does not pass. "P" letter means PPE passes the given requirement; "N/P" means it does not pass it.

Table 1: Overview of basic requirements and technical specifications used in the PPE design. General requirements applicable to all PPE

Require- ment number in Annex II	Requirement description	Applica- tion A - N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
1.1	Design principles	А	EN 166 art. 6.1, 6.2, 6.3 EN 170, Annex B		Р
1.1.1	Ergonomics	Α	EN 166 art. 6.3, 7.1.1 EN 170, Annex B		Р
1.1.2	Levels and classes of protection	А	EN 166 art. 7.1, 7.2		Р
1.1.2.1	Optimum level of pro- tection	Α	EN 166 art. 7.1, 7.2 EN 170, art. 5		Р
1.1.2.2	Classes of protection appropriate to different levels of risks	А	EN 166 art. 7.1, 7.2 EN 170, art. 5, Annex B		Р
1.2	Innocuousness of PPE	Α		See requirement 1.2.1, 1.2.1.1, 1.2.1.2 and 1.2.1.3 below	Р
1.2.1	Absence of risks and other inherent nuisance factors	А		See requirement 1.2.1.1, 1.2.1.2 and 1.2.1.3 below	Р
1.2.1.1	Suitable constituent materials	A	EN 166 art. 6.2		Р
1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	А	EN 166 art. 6.1		Р
1.2.1.3	Maximum permissible user impediment	Α	EN 166 art. 6.3, 7.1.1		P
1.3	Comfort and effective- ness	А	EN 166 art. 6.3, 7.1.1		P

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
1.3.1	Adaptation of PPE to user morphology	Α	EN 166 art. 6.3, 7.1.1		Р
1.3.2	Lightness and design strength	А	EN 166 art. 7.1.4, 7.2.2		Р
1.3.3	Compatibility of different classes or types of PPE designed for simultane- ous use	Α		Direct assessment according to the art. 1.3.3, Annex II of PPE Regulation	Р
1.3.4	Protective clothing con- taining removable pro- tectors	N/A			
1.4	Manufacturer's instruc- tions and information	Α	EN 166 art. 10		P

Table 2: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements common to several classes or types of PPE

Require- ment number in Annex II	Requirement description	Applica- tion A N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
2.1	PPE incorporating adjustment systems	А	EN 166 art. 6.3		Р
2.2	PPE enclosing the parts of the body to be protected	N/A			
2.3	PPE for the face, eyes and respiratory system	Α	EN 166 all articles + 7.2.2 (except of art. 7.2) EN 170, art. 5.2		Р
2.4	PPE subject to ageing	Α	EN 166 art. 7.1.5		P
2.5	PPE which may be caught up during use	N/A			
2.6	PPE for use in poten- tially explosive atmos- pheres	N/A			
2.7	PPE intended for rapid intervention or to be put on or removed rapidly	N/A			
2.8	PPE for intervention in very dangerous situations	N/A			
2.9	PPE incorporating com- ponents which can be adjusted or removed by the user	А	EN 166 art. 6.3		Р
2.10	PPE for connection to complementary equip- ment external to the PPE	N/A			

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	ment
2.11	PPE incorporating a fluid circulation system	N/A			
2.12	PPE bearing one or more identification markings or indicators directly or indirectly re- lating to health and safety	А	EN 166 art. 9 EN 170, art. 4		Р
2.13	PPE capable of signal- ling the user's presence visually	N/A			
2.14	'Multi-risk' PPE	А	EN 166 all articles + 7.2.2 (except of art. 7.2)	EN 170	Р

Table 3: Overview of basic requirements and technical specifications used in the PPE designing. Additional requirements specific to particular risks

Require- ment number in Annex II	Requirement description	Applica- tion A - N/A	nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
3.1	Protection against me- chanical impact	Α	EN 166 art. 7.1.4, 7.2.2		Р
3.1.1	Impact caused by fall- ing or ejected objects and collision of parts of the body with an obsta- cle	Α	EN 166 art. 7.1.4, 7.2.2		Р
3.1.2	Falls	N/A			
3.1.2.1	Prevention of falls due to slipping	N/A			
3.1.2.2	Prevention of falls from a height	N/A			
3.1.3	Mechanical vibration	N/A			·
3.2	Protection against static compression of part of the body	N/A			
3.3	Protection against me- chanical injuries	N/A			
3.4	Protection in liquids	N/A		- "	
3.4.1	Prevention of drowning	N/A			
3.4.2	Buoyancy aids	N/A			_
3.5	Protection against the harmful effects of noise	N/A			
3.6	Protection against heat and/or fire	N/A			
3.6.1	PPE constituent materi- als and other compo- nents	N/A			
3.6.2	Complete PPE ready for use	N/A			

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmo- nised standard speci- fying the requirement (according to Annex ZA)	Other technical speci- fication or the manner of proving the compli- ance with the require- ment	Assess- ment P - N/P
3.7	Protection against cold	N/A			
3.7.1	PPE constituent materi- als and other compo- nents	N/A			
3.7.2	Complete PPE ready for use	N/A			
3.8	Protection against elec- tric shock	N/A			
3.8.1	Insulating equipment	N/A			-
3.8.2	Conductive equipment	N/A			
3.9	Radiation protection	Α	EN 166 art. 7.2.1 EN 170, art. 5, Annex B		P
3.9.1	Non-ionising radiation	Α	EN 166 art. 7.2.1 EN 170, art. 5, Annex B		Р
3.9.2	lonising radiation	N/A	The state of the s		_
3.9.2.1	Protection against ex- ternal radioactive con- tamination	N/A			
3.9.2.2	Protection against ex- ternal irradiation	N/A			
3.10	Protection against sub- stances and mixtures which are hazardous to health and against harmful biological agents	N/A			
3.10.1	Respiratory protection	N/A			
3.10.2	Protection against cuta- neous and ocular con- tact	N/A			
3.11	Diving equipment	N/A		-	

When designing the product, the manufacturer applied the following standard harmonised to Regulation (EU) 2016/425:

EN 166:2001 Personal eye protection – Specifications

EN 170:2002 Personal eye-protection – Ultraviolet filters - Transmittance requirements and recommended use

3.2 Indicators specifying basic requirements and test methods

Indicators specifying applicable basic requirements (marked with "A" in the third column of Tables No. 1 through 3):

- Design and manufacturing requirements
- General construction
- Materials

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- Basic requirements
- Field of vision
- Optical requirements
 - Spherical refractive power
 - Astigmatic refractive power
 - Prismatic refractive power
 - Transmittance in UV and VIS range
 - Variations in transmittance
 - Diffusion of light
- Quality of material and surface
- Increased robustness
- Resistance to ageing
 - Stability at an elevated temperature
 - Resistance to ultraviolet radiations
- Resistance to ignition
- Resistance to corrosion
- Special requirement
- Protection against high speed particles (low energy impact F)
- Lateral protection
- Marking
- Information supplied by the manufacturer

3.3 Test methods

Table No. 4: Overview of test methods used for evaluating the materials and product

Properties	Test method	
Design and manufacturing requirements		
- General construction	visual assessment	
- Materials	visual assessment	
Basic requirements		
- Field of vision	art. 18 EN 168	
Optical requirements		
- Spherical refractive power		
 Astigmatic refractive power 	art. 3 EN 167	
 Prismatic refractive power 		
- Transmittance	art. 6 EN 167	
 Variation in transmittance 	art. 7 EN 167	
- Diffusion of light	art. 4 EN 167	
Quality of material and surface	art. 5 EN 167	
Increased robustness	art. 3.1 EN 168	
Resistance to ageing		
 Stability at an elevated temperature 	art. 5 EN 168	
 Resistance to ultraviolet radiations 	art. 6 EN 168	
Resistance to ignition	art. 7 EN 168	
Resistance to corrosion	art. 8 EN 168	

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Table No. 4: Continuation from page 8.

Overview of test methods used for evaluating the materials and product

Properties	Test method
Special requirement	
- Lateral protection	art. 19 EN 168
 Protection against high-speed particles (low energy impact – F) 	art. 9.2.1 EN 168
Marking	visual assessment
Information supplied by the manufacturer	visual assessment

3.4 Place and scope of sampling

Samples of the assessed product were delivered by the Customer on 2021-04-01 in compliance with the instruction of the designated worker of the NB at the quantity 12 pieces of Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO.

With regard to the fact that this is the EU type examination by a notified body, the Customer asking for assessing the conformity is responsible for selecting a sample (or prototype). The test examination does not include inspection activity focused on the conformity of properties of all products introduced to the market with the assessed (proto)type.

3.5 Place of performing the tests and assessment

Tests were performed in the following accredited testing laboratories: Institute for testing and certification, a.s., Zlín, Czech Republic and Meopta – optika, s.r.o., Přerov, Czech republic.

The documentation was examined and visual inspection and product type assessment were performed in Institute for testing and certification, a.s., Czech Republic.

3.6 Results of tests and assessment

Results of the personal protective equipment evaluation are summarised in Table No. 5. Test methods stated in respective part of Table No. 4 were used.

Table 5: Results of the evaluation of the Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO

Significant property	Measuring unit	Requirement	Determination / Document No.
Design and manufacture / innocuousness, comfort, ergo- nomics /	_	art. 6 EN 166	pass / D1, D2, D3
General construction	-	art. 6.1 EN 166	pass / D1, D2
Materials	-	art. 6.2 EN 166	pass / D1, D3

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Table 5: Continuation from page 9. Results of the evaluation of the Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO

Significant property	Measuring unit	Requirement	Determination / Document No.
Field of vision	-	art. 7.1.1 EN 166 Eye-protector shall exhibit: - minimum field of vision defined by the two ellipses in Figure 1 - placing of the ellipses shall be in compliance with requirements of standard	pass / D1 Eye protector exhibit: -larger than minimal field of vision defined by the two ellipses in figure 1 -placing of the ellipses comply with requirements of standard
Optical requirements			
- Spherical refractive power	m ⁻¹	art. 7.1.2.1.2 EN 166 Table 3 Optical class 2: ±0,12	pass / D1 (optical class 2) max0,12
- Astigmatic refractive power	m ⁻¹	art. 7.1.2.1.2 EN 166 Table 3 Optical class 2: 0,12	pass / D1 0,04
- Prismatic refractive power	cm/m	art. 7.1.2.1.2. EN 166 Optical class 2: Horizontal (base out): 1.00	pass / D1 Horizontal (base out): 0,09
- Transmittance (VIS)	%	Vertical: 0,25 art. 5 EN 170, table 1	Vertical: 0,05 pass / D5
- Transmittance (UV)	%	≥74,4 art. 5 EN 170, table 1 Scale number 2 – 1,2 313 nm ≤ 0,003 365 nm ≤ 50	85,9 pass / D1 0 0
- Variation in transmittance	%	art. 7.1.2.2.3.1 EN 166 Table 4 max. ±5	pass / D1
- Diffusion of light	cd.m ⁻² .lx ⁻¹	art. 7.1.2.3 EN 166 max. 0,75	pass / D1 max. 0,04
Quality of material and surface		art. 7.1.3 EN 166 visor shall be free from any significant defects likely to impair vision in use	pass / D1 visor is without any significant defects likely to impair vision in use
Increased robustness Temperature: -5 °C / 55 °C	-	art. 7.1.4.2.2 EN 166 The following defects shall not occur: - fracture - ocular deformation - lateral protection failure	pass / D1 without fracture, visor deformation and lateral protection failure
Resistance to ageing		- Nepaul-Asia (control de la c	
Stability at an elevated temperature (55 °C)	-	art. 7.1.5.1 EN 166 visor shall show no apparent deformation	pass / D4 without apparent deformation
Resistance to ultraviolet radiations	W-Mhylmony-romarnamin mana iima	art. 7.1.5.2 EN 166	pass / D1
-Relative change of the luminous transmittance in visible spectrum	%	±5	0
- Diffusion of light	cd.m ⁻² .lx ⁻¹	max. 0,75	0,04

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Table 5: Continuation from page 10. Results of the evaluation of the Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO

Significant property	Measuring unit	Requirement	Determination / Document No.
Resistance to ignition	-	art. 7.1.7 EN 166 no part of visor ignites or continues to glow after removal of the steel rod	pass / D4 without ignition and continuing to glow after removal of the steel rod
Resistance to corrosion		art. 7.1.6 EN 166 all metal parts of the glasses shall display smooth surfaces, free from corrosion	smooth surfaces, without
High speed particles Low energy impact – F	*	art. 7.2.2 EN 166 The following defect shall not occur: - visor fracture and deformation - visor holder failure - visor bracket failure - lateral protection failure	pass / D1 Without: - visor fracture and deformation - visor holder failure - visor bracket failure - lateral protection failure
Lateral protection	ž	art. 7.2.8 EN 166 is satisfactory if the eye- protector prevents the tip of the rod from touching the impact regions on the head-form	pass / D1 lateral protection prevents the tip of the rod from touching the impact regions on the head-form
Marking	-	art. 9 ČSN EN 166	pass / D2
Information for users		art. 10 EN 166	pass / D2

The bases for the evaluations stated in Table No. 5 are the test results specified in the following documents:

- D1: Evaluation Report Ref. No. 723301730/2020 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2020-03-13
- D2: Record of assessment No. 723302116/D issued by Institute for testing and certification, a. s. Zlín on 2021-04-22
- D3: Declaration about innocuousness issued by BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- D4: Accredited Laboratory Test Report Ref. No. 723302116/01 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2021-04-15
- D5: Test Report No. KX E 2115 issued by Meopta optika, s.r.o., Přerov, Czech Republic, on 2021-04-26

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3.7 Assessment of product conformity with technical specifications and basic requirements

The assessed product – Work safety glasses - protective eyewear, type: Baymax S1100 QUATTRO – complies with the requirements set by the following technical standard with regard to its design and submitted documentation:

EN 166:2001 Personal eye protection - Specifications

EN 170:2002 Personal eye-protection - Ultraviolet filters - Transmittance requirements and recommended use

Results of the evaluation of the personal protective equipment stated in Table No. 5 hereof prove the conformity of all indicators specifying general basic requirements of Regulation (EU) 2016/425, additional basic requirements common for more types of PPE and additional basic requirements for special risks applicable to the evaluated type of product.

4. Conclusion

Notified Body 1023 performed EU Type-Examination of the personal protective equipment

Work safety glasses - protective eyewear

Type: Baymax S1100 QUATTRO

Technical specifications used by the manufacturer are in compliance with basic requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

The sample of the personal protective equipment was produced in compliance with the technical documentation of the manufacturer and can be fully safely used for its intended purpose.

The sample of the personal protective equipment meets all the provisions of the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Notified Body NB 1023 decided to issue the EU Type-Examination Certificate.

5. List of documents used for the preparation for the Evaluation Report

- Application for the EU Type-Examination BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ Şti. company dated on 2021-03-31
- Technical documentation issued by the BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ company in April 2021
- Check list issued by BAYEM GRUP IÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22
- Evaluation Report Ref. No. 723301659/2019 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2019-02-19
- Record of assessment No. 723302116/A issued by Institute for testing and certification, a.
 s. Zlín on 2021-04-22
- Declaration about innocuousness issued by BAYEM GRUP İÇ VE DIŞ TİC. LTD. ŞTİ company on 2021-04-22

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- Accredited Laboratory Test Report Ref. No. 723302116/01 issued by Institute for testing and certification, a. s. Zlín, Czech Republic, on 2021-04-15
- Test Report No. KX E 2115 issued by Meopta optika, s.r.o., Přerov, Czech Republic, on 2021-04-26

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