

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

TESTING AND CERT

Mgr. Viiĭ Heš Representative of Notified Body No. 1023

Tax & VAT Id No CZ47910381 Company Id No 47910381

Phone +420 577 601 238 +420 577 601 623 Fax +420 577 104 855 +420 577 601 702 e-mail itc@itczlin cz www.itczlin.cz

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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 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	Polycarbonates (PC)
12000211012	eyewear, type: Baymax S800	

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

3	ign. Generai requirem	ents app	icable to all FFE		177
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	A	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 protection	Α	EN 166 art. 7.1, 7.2		P
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	Α		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	A	EN 166 art. 6.1		Р
1.2.1.3	Maximum permissible user impediment	A	EN 166 art. 6.3, 7.1.1		Р
1.3	Comfort and effective- ness	А	EN 166 art. 6.3, 7.1.1		Р
1.3.1	Adaptation of PPE to user morphology	A	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		W.
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 harmonised standard speci- fying the requirement (according to Annex	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	A	ZA) EN 166 art. 6.3	Hierie	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			4
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			

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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 P – N/P
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		P
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 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	A	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			71
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-	Requirement descrip-	Applica-	Article of the harmo-	Other technical speci-	Assess-
ment	tion	tion	nised standard speci-	fication or the manner	ment
number		A - N/A	fying the requirement	of proving the compli-	P - N/P
in Annex II			(according to Annex	ance with the require-	
			ZA)	ment	
3.7.1	PPE constituent materi-				
	als and other compo-	N/A			
	nents				
3.7.2	Complete PPE ready	N/A	-		
	for use	N/A			
3.8	Protection against elec-	N/A			
	tric shock	19/7			
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-	N/A			
	tamination				
3.9.2.2	Protection against ex-	N/A			
	ternal irradiation	IN//A			
3.10	Protection against sub-				
	stances and mixtures				
	which are hazardous to	N/A			
	health and against	14/2			
	harmful biological				
	agents				
3.10.1	Respiratory protection	N/A			
3.10.2	Protection against cuta-				
	neous and ocular con-	N/A			
	tact				
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	менти при при при при при при при при при пр
- Spherical refractive power	- + 0 EN 407
- Astigmatic refractive power	art. 3 EN 167
- Prismatic refractive power	
- Tran <mark>sm</mark> ittance	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 particles 	art. 9.2.1 EN 168
(low energy impact – F)	
- 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 evewear, type: Baymax \$800 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 \$800 Comfort

Significant property	Measuring unit	Requirement	Determination / Document No.
Optical requirements		and the second s	
- 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 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 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
- Declaration about innocuousness issued by BAYEM GRUP IÇ VE DIŞ TIC. LTD. ŞTI 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 IC 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