

# Certificate of authorization

By this letter we confirm, that the company "**TechPlanet**" **SRL**, address: (rl. Orhei, Republic of Moldova), fiscal code: 1017606000085, VAT code: 7401154, is a partner of the manufacturer

"Holík International" s.r.o. (Za Dvorem 612, 763 14 Zlín 12, Czech Republic) and is authorized to promote and sell our products in the territory of the Republic of Moldova.

All work processes fully comply with our quality certificates.

## Certificat de autorizare

Prin această scrisoare confirmăm, că compania "**TechPlanet**" **SRL**, adresa: (rl. Orhei, Republica Moldova), cod fiscal: 1017606000085, cod TVA: 7401154, este un partener al producătorului

"Holík International" s.r.o. (Za Dvorem 612, 763 14 Zlín 12, Republica Cehă) și are autorizare de a promova și vinde produsele noastre pe teritoriul Republicii Moldova.

Toate procesele de lucru respectă pe deplin certificatele noastre de calitate.

The authorization is valid till 31.12.2022.

Zlín, 22<sup>nd</sup> February 2022

Marek Štefan

sales manager



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. 18 0300 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 III:

Operating Gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013 Mercedes-8018, Crystal-8005, Meadow-8038

Manufacturer:

HOLÍK International s.r.o. Za Dvorem 612, 763 14 Zlín 12, Czech Republic

VAT No: CZ25322214

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:

ČSN EN 420:2004 + A1:2010 (EN 420:2003 + A1:2009) ČSN EN 659:2004+A1:2008 (EN 659:2003+A1:2008)

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. 723301588/01/2018 that is an integral part of this Certificate.

Condition of this certificate use and related information:

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

2. 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 type approved by this Certificate, which must be used only in conjunction with one of the conformity assessment procedures referred to in Article 19 (c) either of the following: conformity to type based on internal production control plus supervised product checks at random intervals (module C2) set out in Annex VII or conformity to type based on quality assurance of the production process (module D) set out in Annex VIII Regulation of the European Parliament and of the Council (EU) 2016/425.

4. The manufacturer shall inform the Notified Body of all technological 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 Notified Body, which shall approve these changes in necessary cases by

the amendment of this Certificate.

 The manufacturer shall affix to each PPE of the approved type the conformity mark CE followed by Notified Body number, which approves the system of production control in accordance with Annex VII (module C2) or VIII (module D) the Regulation (EU) 2016/425 of the European Parliament and of the Council, according to the principles laid down in Regulation (EC) no. 765/2008.

Issued in Zlin, on 16<sup>th</sup> July 2018 Valid until: 15<sup>th</sup> July 2023



RNDr. Radomír Čevelík Representative of the Notified Body No. 1023



### **EU DECLARATION OF CONFORMITY**

Manufacturer: Holík International s.r.o. Za Dvorem 612, 763 14, Zlín 12, Czech Republic

This Declaration of Conformity is issued under the sole responsibility of the manufacturer Holík International s.r.o..

### **Product Identification:**

**Operating Gloves for Firefighters, types:** 

Chelsea - 8009 Diamond - 8008 Karla - 8013 Mercedes - 8018 Crystal - 8005 Meadow - 8038

Operating Gloves for Firefighters, type: Chelsea, Diamond, Karla, Mercedes, Crystal and Meadow comply 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 fulfil the essential health and safety requirements as they are stated in the harmonized technical standards ČSN EN 420:2004+A1:2010 and ČSN EN 659:2004+A1:2008.

#### **Notified Body:**

Institute for Testing and Certification a.s., NB 1023

Tř. T. Bati 299, 764 21 Zlín – Louky, Czech Republic,

performed the EU Type-Examination (Module B) and issued the EU Type-Examination Certificate No. 18 0300 T/NB and Evaluation Report Ref. No.: 723301588/01/2018.

The PPE is subject to the conformity assessment procedure according Module C2 under surveillance of the Notified Body Nr. 1023.

This Declaration of Conformity is available on web site www.holik-international.com.

In Zlín 12, 12th November 2021

HOLÍK INTERNATIONAL S.C.O. ZA DVCREM 612, 763 14 ZLÍN 12 Id +10357125 500 fast #40577 125 555 IČO: 253 22 214, DÍČ: CZ25322214

Ing. Karolína Šnajdarová Testing and Certification



# INSTITUTE FOR TESTING AND CERTIFICATION

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

# **EVALUATION REPORT**

Ref. No.: 723301588/01/2018

Customer:

**HOLÍK** International s.r.o.

Za Dvorem 612 763 14 Zlín 12 Czech Republic

Product:

Operating Gloves for Firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013,

Mercedes-8018, Crystal-8005, Meadow-8038

Appendix:

**Drawing of the Product** 

Author:

Dipl. Ing. Miroslava Dostálová

Yorkica

Issued on:

2018-07-16



RNDr. Radomír Čevelík
Representative of Notified Body No. 1023

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### Introduction

This Evaluation Report was issued on the basis of Application No. 723301588 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.

# 1. Identification of assessed personal protective equipment

A detailed description of the design and structure, including the drawing documentation and specifications of materials used, is given in the file of technical documentation of the product called "Operating Gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038".

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

# Operating Gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

#### Design and used material:

These products are five-fingers gloves with identical basic material composition. The difference is in cuff and in finger reinforcement. Chelsea and Mercedes are designed with long cuff, Diamond a Crystal have short knitted cuff, Karla a Meadow have special, so called Compact cuff. All the models have reinforcement on the back and on the top of fingers, models Mercedes, Crystal, Meadow have protective reinforcement of knuckles, in addition. Connected to the back reinforcement there are warning elements shaped as triangles. Between upper and lining there is PU membrane. It is leakproof for blood, bacteria, chemicals. All the models have identical material of palm and back, i.e. identical properties essential for assessment, so that they are in one type series. Basic glove material composition is described in the Table I. Drawings of the assessed PPE see Annex hereto, address of the manufacturing plant is identical with address of the applicant.

Table I: Material composition of gloves

Part		Chelsea Mercedes	Diamond Crystal	Karla Meadow		
	Upper	Coated aramide knitwear				
Palm	Innerlining		Membrane PU-FR			
	Lining		Aramide textile knitwear			
	Upper	Textile fabr	ic Nomex (blue, red, ev. ot	her colours)		
Back	Reinforcement	Coated aramide knitwear				
	Innerlining Aramide non-woven textile Membrane PU-FR					
	Lining		Aramide textile knitwear			
Cuff	Frontside	Textile fabric Nomex (several colours), textile and synt. material strap	Textile fabric Nomex (several colours) and coated textile, ev. cow split leather, textile and synt. material strap			
	Underside	Aramide textile knitwear and flame resistant cotton fabric	Aramide textile knitwear and flame resistant cotton fabric			

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Intended use of protective personal equipment:

The product is ranked among the personal protective equipment the fundamental purpose of which is a protection of hands from injuries that may be sustained during accidents in the working spheres for which the gloves are intended. With respect to their service characteristics the gloves are intended notably for rescue and firefighting squads. The gloves protect the hands during normal firefighting, including search and rescue. They serve as a protection not only against thermal but also mechanical threats to hands and permit also work in a damp environment and protection against liquid chemicals.

Classification of protective personal equipment:

Operating gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038 were classified as PPE Category III by the manufacturer.

### 2. Technical documentation

Technical documentation was submitted in the Czech language to assess the conformity of the Operating gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038" on 2018-07-04. The file of technical documentation contains the items in according to Annex III of the Regulation (EU) 2016/425 of the European Parliament.

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. II to IV 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. II – IV 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. II - IV 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. II - IV 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.

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# Table II: 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 harmonised standard specifying the requirement (according to Annex ZA)	Other technical specification or the manner of proving the compliance with the requirement	Asses- sment P – N/P
1.1	Design principles	Α		EN 420+A1 Art. 4.1	Р
1.1.1	Ergonomics	Α	EN 659+A1 Art. 3.1 to 3.8	EN 420+A1 Art. 5	Р
1.1.2	Levels and classes of protection	A		See requirements 1.1.2.1, 1.1.2.2 below	Р
1.1.2.1	Optimum level of protection	Α	EN 659+A1 Art. 3.3 to 3.15, 3.17, 3.18		Р
1.1.2.2	Classes of protection appropriate to different levels of risks	А	344	EN 388 Art. 4	Р
1.2	Innocuousness of PPE	А		See requirement 1.2.1, 1.2.1.1, 1.1.2.1 and 1.2.1.3 below	Р
1.2.1	Absence of risks and other inherent nuisance factors	Α	EN 659+A1 Art. 3.1, 3.15	EN 420+A1 Art. 4.3	Р
1.2.1.1	Suitable constituent materials	Α	EN 659+A1 Art. 3.1, 3.11 EN 420+A1 Art. 4.3		Р
1.2.1.2	Satisfactory surface condition of all PPE parts in contact with the user	Α	EN 659+A1 Art. 3.1	EN 420+A1 Art. 4.3, 5	Р
1.2.1.3	Maximum permissible user impediment	Α	EN 659+A1 Art. 3.2, 3.13, 3.15 EN 420+A1 Art. 5.2		Р
1.3	Comfort and effectiveness	Α		See requirement 1.3.1, 1.3.2 below	Р
1.3.1	Adaptation of PPE to user morphology	Α	EN 659+A1 Art. 3.2 EN 420+A1 Art. 5.1		Р
1.3.2	Lightness and design strength	Α	EN 659+A1 Art. 3.14	EN 420+A1 Art. 4.1	Р
1.3.3	Compatibility of different classes or types of PPE designed for simultaneous use	N/A			
1.3.4	Protective clothing containing removable protectors	N/A			
1.4	Manufacturer's instructions and information	Α	EN 659+A1 Art. 5, 6 EN 420+A1 Art. 7.3		Р

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Table III: 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 specifying the requirement (according to Annex ZA)	Other technical specification or the manner of proving the compliance with the requirement	Asses- sment P – N/P
2.1	PPE incorporating adjustment systems	Α	EN 659+A1 Art. 3.2		Р
2.2	PPE enclosing the parts of the body to be protected	Α	EN 659+A1 Art. 3.1	EN 420+A1 Art. 5.3	Р
2.3	PPE for the face, eyes and respiratory system	N/A			
2.4	PPE subject to ageing	Α	EN 659+A1 Art. 3.1 EN 420+A1 Art. 4.4, 7.2.3		Р
2.5	PPE which may be caught up during use	N/A			
2.6	PPE for use in potentially explosive atmospheres	N/A			
2.7	PPE intended for rapid intervention or to be put on or removed rapidly	А	EN 659+A1 Art. 3.15		Р
2.8	PPE for intervention in very dangerous situations	Α		EN 659+A1 Art. 1, Annex B	Р
2.9	PPE incorporating components which can be adjusted or removed by the user	N/A			
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 relating to health and safety	A	EN 659+A1 Art. 5 EN 420+A1 Art. 7.2, Annex B		Р
2.13	PPE capable of signalling the user's presence visually	N/A			
2.14	'Multi-risk' PPE	Α	EN 659+A1 Art. from 3.3 to 3.8		Р

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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 harmonised standard specifying the requirement (according to Annex ZA)	Other technical specification or the manner of proving the compliance with the requirement	Asses- sment P – N/P
3.1	Protection against mechanical impact	N/A			
3.1.1	Impact caused by falling or ejected objects and collision of parts of the body with an obstacle	N/A			
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 mechanical injuries	Α	EN 659+A1 Art. from 3.3 to 3.6		Р
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	Α	EN 659+A1 Art. from 3.7 to 3.12		Р
3.6.1	PPE constituent materials and other components	Α	EN 659+A1 Art. 3.7, 3.8, 3.9		Р
3.6.2	Complete PPE ready for use	Α	EN 659+A1 Art. 3.17, 3.18		Р
3.7	Protection against cold	N/A			
3.7.1	PPE constituent materials and other components	N/A			
3.7.2	Complete PPE ready for use	N/A			
3.8	Protection against electric 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 external radioactive contamination	N/A			
3.9.2.2	Protection against external irradiation	N/A			

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Require- ment number in Annex II	Requirement description	Applica- tion A – N/A	Article of the harmonised standard specifying the requirement (according to Annex ZA)	Other technical specification or the manner of proving the compliance with the requirement	Asses- sment P – N/P
3.10	Protection against substances 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 cutaneous and ocular contact	N/A			
3.11	Diving equipment	N/A			

When designing the product, the manufacturer applied the following standards harmonised to Regulation (EU) 2016/425, see Table V:

Table V: Relevant harmonized standards

Technical standard	Name
ČSN EN 420:2004+A1:2010 (EN 420:2003+A1:2009)	Ochranné rukavice - Všeobecné požadavky a metody zkoušení (Protective gloves. General requirements and test methods)
ČSN EN 659:2004+A1:2008 (EN 659:2003+A1:2008)	Ochranné rukavice pro hasiče (Protective gloves for firefighters)

The following EC Type Certificates were issued by Institut pro testování a certifikaci a.s. Zlín – NB 1023 for the product specified in Art. 1:

- models Chelsey, Diamond, Karla: EC Type Certificate No. 13 0535 T/NB dated 2013-06-11, issued on the base of Final Report ref. No. 723300934/02/2013 dated 2013-06-11. The validity of certificate will expire on 2018-06-10.
- models Mercedes, Crystal, Meadow: EC Type Certificate No. 13 0540 T/NB dated 2013-06-12, issued on the base of Final Report ref. No. 723300934/03/2013 dated 2013-06-12. The validity of certificate will expire on 2018-06-11.

With respect to the expiration dates above mentioned certificates were cancelled and new certificate will be issued. Manufacturing technology and used materials remain unchanged (see document marked D16 in Table VIII).

## 3.2 Indicators specifying basic requirements and test methods

Indicators specifying applicable basic requirements (marked with "A" in the third column of Tables II to IV):

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General requirements – innocuousness and ergonomic requirements:

- Glove design and construction ČSN EN 420+A1, Art. 4.1
- Innocuousness general ČSN EN 420+A1, Art. 4.3.1
- Determination of pH value ČSN EN 420+A1, Art. 4.3.2
- Determination of Cr6+ value ČSN EN 420+A1, Art. 4.3.3
- Determination of glove sizes and glove measurement ČSN EN 420+A1, Art. 5.1 and ČSN EN 659+A1, Art. 3.2
- Determination of dexterity ČSN EN 420+A1, Art. 5.2; ČSN EN 659+A1, Art. 3.13
- Time for the removal of gloves ČSN EN 659+A1, Art. 3.15
- Water vapour absorption ČSN EN 420+A1 Art. 5.3.2
- Whole glove integrity test ISO 15383, Annex A
- Hygienic properties

Requirements for performance - resistance to mechanical risks:

- Determination of abrasion resistance ČSN EN 659+A1, Art. 3.3
- Determination of cut resistance ČSN EN 659+A1, Art. 3.4
- Determination of tear strength ČSN EN 659+A1, Art. 3.5
- Determination of puncture resistance ČSN EN 659+A1, Art. 3.6
- Seam breaking strength ČSN EN 659+A1, Art. 3.14

Requirements for performance - resistance to thermal risks:

- Burning behaviour ČSN EN 659+A1, Art. 3.7
- Convective heat resistance ČSN EN 659+A1, Art. 3.8
- Radiant heat resistance ČSN EN 659+A1, Art. 3.9
- Contact heat resistance ČSN EN 659+A1, Art. 3.10
- Heat resistance of the lining material ČSN EN 659+A1, Art. 3.11
- Heat shrinkage ČSN EN 659+A1, Art. 3.12

Requirements for performance - resistance to chemical risks:

Resistance to liquid chemical penetration - ČSN EN 659+A1, Art. 3.18

Marking, information supplied by the manufacturer:

- Marking, classification ČSN EN 659+A1 Art. 5. ČSN EN 420+A1 Art. 7.
- Information supplied by the manufacturer ČSN EN 420+A1 Art. 7.3

### 3.2 Test methods

The submitted samples of the product assessed, protective gloves, were tested employing test methods specified in Table VI:

Table VI: Test methods and standards used for testing

Test method	Used standard
Protective gloves. General requirements and test methods	ČSN EN 420+A1 (EN 420+A1)
- Determination of pH value	- Art. 4.3.2
- Hand and gloves measurement and dimensions	- Art. 6.1
- Test method for determining gloved finger dexterity	- Art. 6.2
Protective gloves against mechanical risks	ČSN EN 388 (EN 388)
- Abrasion resistance	- Art. 6.1
- Resistance to blade cutting	- Art. 6.2
- Tear strength	- Art. 6.4
- Puncture resistance	- Art. 6.5

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Table VI: Test methods and standards used for testing

Test method	Used standard
Protective gloves for firefighters	ČSN EN 659+A1 (EN 659+A1)
- Burning behaviour	- Art. 3.7
- Convective heat resistance	- Art. 3.8
- Radiant heat resistance	- Art. 3.9
- Contact heat resistance	- Art. 3.10
- Heat resistance of lining material	- Art. 3.11
- Heat shrinkage	- Art. 3.12
- Time for the removal of gloves	- Art. 3.15
- Whole glove integrity test	- Art. 3.17
- Resistance to liquid chemical penetration	- Art. 3.18
Leather – Chemical tests – Determination of pH	ČSN EN ISO 4045 (EN ISO 4045)
Textiles – Determination of pH of aqueous extract	ČSN EN ISO 3071 (EN ISO 3071)
Leather – Chemical tests – Determination of Cr (VI) content	ČSN EN ISO 17075 (EN ISO
	17075)
Textile fabrics - Burning behaviour - Measurement of flame	ČSN EN ISO 6941 (EN ISO 6941)
spread properties of vertically oriented specimens	
Protective gloves against thermal risks /heat and/or fire/	ČSN EN 407 (EN 407)
Clothing to protect against heat and flame - Determination of	ČSN EN ISO 12127-1 (EN ISO
contact heat transmission through clothing or constituent	12127-1)
materials - Part 1: Contact heat produced by heating cylinder	(replacement of ČSN EN 702)
Protective clothing against heat and flame - Determination of	ČSN EN ISO 9151 (EN ISO 9151)
heat transmission on exposure to flame	(replacement of ČSN EN 367)
Protective clothing. Protection against heat and fire. Method of	ČSN EN ISO 6942 (EN ISO 6942)
test: Evaluation of materials and material assemblies when	
exposed to a source of radiant heat	
Textiles - Seam tensile properties of fabrics and made-up	ČSN EN ISO 13935-2 (EN ISO
textile articles - Part 2: Determination of maximum force to	13935-2)
seam rupture using the grab method	
Protective clothing – Protection against liquid chemicals –	ČSN EN ISO 6530 (EN ISO 6530)
Determination of resistance of materials to penetration by	
liquids	
Clothing and equipment for protection against heat - Test	ISO 17493
method for convective heat resistance using a hot air	
circulating oven	
Protective gloves for firefighters – Laboratory test method and	ISO 15383
performance requirements	
Visual evaluation of marking, classification, information	ČSN EN 659+A1 Art. 5, ČSN EN
provided by the manufacturer	420+A1 Art. 7

# 3.4 Place and scope of sampling

Samples of the assessed product were delivered by the customer on 2018-07-02 in compliance with instructions of the designated worker of the Notified Body NB 1023 at the quantity of 3 pairs and 6 halfpairs. 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: Institut pro testování a certifikaci, a.s., (Institute for Testing and Certification, a.s.), Zlín, AZL No. 1004 and VÚBP v.v.i. Praha, AZL No. 1040 (radiant heat resistance), both Czech Republic. The tests were completed in June 2018. The documentation was examined and visual inspection and product type assessment were performed in Institute for testing and certification, a.s.

### 3.6 Results of tests and assessment

Results of the personal protective equipment evaluation are summarised in Table VIII. Test methods stated in respective part of Table VI were used.

Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment <sup>1)</sup>	Value required	Results obtained <sup>2)</sup>	Number of docu- ment <sup>3)</sup>	Assessment
General requirements Glove design and construction - generally (EN 420+A1 Art. 4.1)	- in the foreseeable conditions of use the user can perform the hazard related activity normally whilst enjoying appropriate protection at the highest possible level	- the user can perform the activities normally	D2	pass
	- the gloves must be possible easy to dress and remove - performance of the material and strength of the seams shall not be significantly decreased	- it is possible easy to dress and remove - performance is not decreased		
Innocuousness Generally (EN 420+A1 Art. 4.3.1)	the protective glove shall be designed and manufactured to provide protection when used to the instructions, without harm to the user when so used	- the protection of user is provided for	D1, D2, D15	pass
	- glove materials shall not adversely affect the user's health and hygiene - the allergens must be described if they are known	- they do not affect - allergens are not known		
pH value (EN 420+A1 Art. 4.3.2) - palm sandwich - back sandwich - aramide knitwear - non-flammable cotton fabric	3.5 up to 9.5	6.77 6.88 6.86 6.96	D7 D7 D11 D10	pass
- cow split leather		3.81	D8	
Cr <sup>6+</sup> content (EN 420+A1 Art. 4.3.3) - cow split leather	max. 3 mg/kg	< 3 mg/kg	D8	pass

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Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment <sup>1)</sup>	Value required	Results obtained <sup>2)</sup>	Number of docu- ment <sup>3)</sup>	Assessment
Glove circumference – Chelsea (EN 420+A1 Art.	minimum hand circumference	hand circumference		
5.1.1) - for hand size	450			
6	152 mm			
7 8	178 mm			
9	203 mm 229 mm	258 mm	D4	2000
10	254 mm	272 mm	D2	pass
11	279 mm	212111111	DZ.	pass
Glove circumference –	21311111			
Diamond (EN 420+A1	minimum hand circumference	hand circumference		
<i>Art. 5.1.1)</i> - for hand size				
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	258 mm	D4	pass
10 11	254 mm	280 mm	D2	pass
	279 mm			
Glove circumference – <b>Karla</b> (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	266 mm	D2	pass
10	254 mm			puoo
11	279 mm			
Glove circumference – Mercedes (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	274 mm	D2	pass
10	254 mm	288 mm	D2	pass
11	279 mm			
Glove circumference – Crystal (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	268 mm	D2	pass
10	254 mm	270 mm	D4	pass
11	279 mm			

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Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment <sup>1)</sup>	Value required	Results obtained <sup>2)</sup>	Number of docu- ment <sup>3)</sup>	Assessment
Glove circumference – <b>Meadow</b> (EN 420+A1 Art. 5.1.1) - for hand size	minimum hand circumference	hand circumference		
6	152 mm			
7	178 mm			
8	203 mm			
9	229 mm	276 mm	D2	pass
10	254 mm	280 mm	D2	pass
11	279 mm			
Glove length - <b>Chelsea</b> (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	340 mm	D4	pass
10	305 mm	378 mm	D2	pass
11	315 mm			
Glove length – <b>Diamond</b> (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	295 mm	D4	pass
10	305 mm	314 mm	D2	pass
11	315 mm	***************************************		
Glove length - <b>Karla</b> (EN 659+A1 Art. 3.2) - for hand size	minimum length	length		
6 7 8	260 mm 270 mm 280 mm			
9	290 mm	309 mm	D2	pass
	305 mm			
11	315 mm			
Glove length -  Mercedes  (EN 659+A1 Art. 3.2)  for hand size	minimum length	length		
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	395 mm	D2	pass
10	305 mm	380 mm	D2	pass
10	000 111111			

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Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment <sup>1)</sup>	Value required	Results obtained <sup>2)</sup>	Number of docu- ment <sup>3)</sup>	Assessment
Glove length - Crystal				
(EN 659+A1 Art. 3.2)	minimum length	length		
- for hand size				
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	305 mm	D2	pass
10	305 mm	320 mm	D2	pass
11	315 mm	32V IIIII	<u>UZ</u>	pass
	31311111			
Glove length - Meadow				
(EN 659+A1 Art. 3.2)	minimum length	length		
- for hand size				
6	260 mm			
7	270 mm			
8	280 mm			
9	290 mm	322 mm	D2	pass
10	305 mm	322 mm	D2	pass
11	315 mm			C
Dexterity (EN 420+A1	the smallest diameter of the			
		diameter of the roll		
Art. 5.2) - for style class	roll for which the test	diameter of the roll		
	conditions are met			
1	11.0 mm			
2	9.5 mm			
3	8.0 mm			
4	6.5 mm	6.5 mm	D4	pass
5	5.0 mm			
Water vapour	gloves have to be designed	sweat effect limited	D2	pass
absorption	so as to be limited of sweat	by used lining		
(EN 420+A1 Art. 5.3)	effect	material (textile		
		absorptive lining and		
		innerlining)		
Abrasion resistance -	minimum number of cycles at			
palm(3.3) for style class	which the material must not	number of cycles		
	be worn through			
3	2000 cycles			
4	8000 cycles	8000 cycles	D9	pass
Cut resistance – palm,	0000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000 070100	20	pass
for style class (3.4)	min indev	index		
, ,	min. index	index		
2	2.5			
3	5.0			
4	10.0	27 5	D0	
5	20.0	27.5	D9	pass
Cut resistance – back,				
for style class (3.4)	min. index	index		
2	2.5			
3	5.0			
4	10.0			
5	20.0	33.1	D9	pass

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Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment <sup>1)</sup>	Value required	Results obtained <sup>2)</sup>	Number of docu- ment <sup>3)</sup>	Assessment
Tear resistance - palm,				
for style class (3.5)	minimum force	force		
3 4	50 N 75 N	93.7 N	D9	nace
Puncture resistance –	7514	33.7 14	Da	pass
palm, for style class (3.6)	minimum force	force		
3	100 N	110 N	D9	pass
4	150 N			
Burning behaviour (3.7) - after flame time for style class				
4	max. 2 s	0 s	D3	pass
Burning behaviour (3.7) - afterglow time for style class	maximum time			
4	max. 5 s	0 s	D3	pass
Burning behaviour (3.7)	if the material melts, it must not drip off and the seam must not open for a period of 15 s	the seams did not open, the material does not burn and does not drip off	D3	pass
Convective heat				
resistance (3.8) - palm				
HTI <sub>24</sub> for style class	index HTI <sub>24</sub>	HTI <sub>24</sub>		
3	min. 13 s	40 =		
Commention hand	min. 18 s	40.5 s	D7	pass
Convective heat resistance (3.8) – back HTI <sub>24</sub> for style class	index HTI <sub>24</sub>	HTI <sub>24</sub>		
3	min. 13 s	111124		
4	min. 18 s	66.2 s	D7	pass
Radiant heat resistance (3.9) - back				
- time t <sub>24</sub> - average value - time t <sub>24</sub> - minimum value	min. 20 s min. 18 s	26.5 s 26.2 s	D14 D14	pass pass
Contact heat resistance for 250°C (3.10) - palm threshold time t <sub>24</sub>				
after dry conditioning	min. 10 s	35.9 s	D7	pass
after wet conditioning	min. 10 s	27.4 s	D7	pass
Heat resistance of the lining material (3.11) - performance after test	the lining materials shall neither melt nor drip nor catch fire	they do not melt drip catch fire	D13	pass

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Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment <sup>1)</sup>	Value required	Results obtained <sup>2)</sup>	Number of docu- ment <sup>3)</sup>	Assessment
Heat shrinkage (3.12) - length change Chelsea, Mercedes Diamond, Crystal Karla, Meadow	max. 5 %	0,7 % 0 % 0 %	D13	pass
Heat shrinkage (3.12) - width change Chelsea, Mercedes Diamond, Crystal Karla, Meadow	max. 5 %	0 % 0 % 0 %	D13	pass
Heat shrinkage (3.12) - performance after test Chelsea, Mercedes Diamond, Crystal Karla, Meadow	after the test and 25 flex cycles shall be gloves without damage	without damage without damage without damage	D13	pass
Seam breaking strength (3.14) - palm textile – back textile	min. 350 N	572 N	D5	pass
Time for the removal of gloves (3.15) - after dry conditioning Chelsea, Mercedes Diamond, Crystal Karla, Meadow	max. 3 s	2,0 s 1,5 s 2,0 s	D6	pass
Time for the removal of gloves (3.15) - after wet conditioning Chelsea, Mercedes Diamond, Crystal Karla, Meadow	max. 3 s	2,0 s 2,5 s 2,0 s	D6	pass
Whole glove integrity test (3.17)	no water marks on the innerglove after testing	no water marks on the innerglove after testing	D12	pass
Resistance to liquid chemical penetration (3.18) – palm, back (PU membrane)			D7	
30 hm. % H₂SO₄ 40 hm. % NaOH 36 hm. % HCl heptane	when tested accordingly, there shall be no penetration	no penetration no penetration no penetration no penetration		pass pass pass pass
Marking (Art. 5, EN 420 Art. 7.2)	marking of each gloves: - dates according to EN 420+A1 Art. 7.2 - number of standard EN 659+A1	each gloves marked marked	D2	pass

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Table VII: Results of assessment of product Operating gloves for firefighters: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

Property essential for assessment <sup>1)</sup>	Value required	Results obtained <sup>2)</sup>	Number of docu- ment <sup>3)</sup>	Assessment
Marking (Art. 5, EN 420 Art. 7.2)	- specific pictogram for firefighters	marked	D2	pass
Information supplied by the manufacturer (Art. 6, EN 420+A1 Art. 7.3)	information shall be in accordance with the applicable clause of EN 420+A1, EN 388, EN 659+A1	contains required data	D2	pass

#### Notes to Table VII:

- Appropriate articles of the ČSN EN 659+A1 standard are given in the brackets (unless otherwise stated)
- The test results are only levels (classes) of style rather than protection level. Classification is carried out by dashed line.
- 3) The documents placed in this column are the basis for assessment. Their identification see in Table VIII

# 3.7 Assessment of product conformity with technical specifications and basic requirements

The assessed product – Operating Gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038, specified in Item 1 hereof – complies with the requirements set by the following technical standards with regard to its design and submitted documentation:

ČSN EN 420:2004+A1:2010 (EN 420:2003+A1:2009), ČSN EN 659:2004+A1:2008 (EN 659:2003+A1:2008)

Results of the evaluation of the personal protective equipment stated in Table No. 6 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 NB 1023 performed EU Type-Examination of the personal protective equipment

# Operating Gloves for firefighters, types:

Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038

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.

The Notified Body No. 1023 has decided to issue the EU Type Certificate.

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

List of documents used by Notified Body NB 1023 by EC type examination of product, is presented in the Table. VIII. Numbers of documents in second column correspond with numbers of documents published in the Table VII with assessment of product properties.

# Table VIII: List of documents

Name of document	Marking
The application of company HOLÍK International s.r.o., Zlín, dated 2018-06-18	-
Technical documentation of company HOLÍK International s.r.o., Zlín for the Operating Gloves for firefighters, types: Chelsea-8009, Diamond-8008, Karla-8013, Mercedes-8018, Crystal-8005, Meadow-8038 submitted on 2018-06-18	D1
Check list / a list of basic health and safety requirements issued by HOLÍK International s.r.o., Zlín on 2018-05-30	-
Document on receipt of samples (Sample Registration Book of the ITC's Centre 260)	_
EC Type Certificates No. 13 0535 T/NB and 13 0540, issued in Institut pro testování a certifikaci, a.s., Zlín	-
Final Reports ref. No. 723300934/02/2013 and 723300934/03/2013, issued in Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	-
Assessment Record No. 723301588/A, Notified Body NB 1023, Institut pro testování a sertifikaci, a.s., Zlín	D2
Accredited Laboratory Test Report ref. No. 723300459/01, issued in testing accredited aboratory AZL1004, Institut pro testování a certifikaci, a.s., Zlín	D3
accredited laboratory test report ref. No. 723300934/01, issued in testing accredited aboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín	D4
ccredited laboratory test report ref. No. 343300066/01, issued in testing accredited aboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín	D5
ccredited laboratory test report ref. No. 412601553/6, issued in testing accredited aboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D6
ccredited laboratory test report ref. No. 412601968/32, issued in testing accredited aboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D7
ccredited laboratory test report ref. No. 412602379/1, issued in testing accredited aboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D8
ccredited laboratory test report ref. No. 412602633/11, issued in testing accredited aboratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D9
ccredited laboratory test report ref. No. 412602684/4, issued in testing accredited boratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D10
ccredited laboratory test report ref. No. 412602684/5, issued in testing accredited boratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D11
ccredited laboratory test report ref. No. 412602702/6, issued in testing accredited boratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D12
ccredited laboratory test report ref. No. 412602721/3, issued in testing accredited boratory AZL 1004, Institut pro testování a certifikaci, a.s., Zlín, Czech Republic	D13
est report No. 014/2013, issued in testing accredited laboratory AZL 1040, VUBP Praha ZL, Czech Republic	D14
eclaration about innocuousness for human health of materials used on the product, sued in company HOLÍK International s.r.o., Zlín, Czech Republic on 2018-05-30	D15
eclaration about keeping of material and construct composition of products, issued in ompany HOLÍK International s.r.o., Zlín, Czech Republic dated 2018-05-30	D16

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Appendix to Evaluation Report Ref. No. 723301588/01/2018:

# **Drawing of the Product**









Chelsea

Diamond







Karla

Mercedes







Meadow