



In application of the directive 89/686/EEG of 21 December 1989 concerning the harmonisation of the Member States legislation relative to personal protective equipment, Centexbel Notified body 0493 authorised by decree AV/OA235/ST dated 94-05-25 of the Ministry of Employment and Labour has issued

## CE TYPE EXAMINATION CERTIFICATE

**Nr. 031/2016/0130**

**This CE Type examination certificate is valid until 12 Feb 2021**

to: **ROOTS for Safety bv, Hoogvliet Rotterdam**

for: **Jacket FR-02**

The personal protective equipment above mentioned satisfies the applicable essential safety requirements of the Directive.

For the argumentation, the following standards are used:

EN ISO 11612:2008 Protective clothing - clothing to protect against heat and flame

EN ISO 13688:2013 Protective clothing - General requirements

EN342:2004 Protective Clothing - Ensembles and garments for protection against cold

This declaration applies to the equipment as submitted in the type testing and described in the manufacturer's technical file that is registered with number 5535\_1.

Issued by Centexbel, Notified Body 0493<sup>(\*)</sup>, in Ghent, on 12 Feb 2016

Inge De Witte  
Certification Manager

Attached: 1 Annex

<sup>\*)</sup>Recognized by decree AV/OA235/ST of 94-05-25 of the Ministry of Labor and Employment



## ANNEX

### CE TYPE EXAMINATION CERTIFICATE Nr. 031/2016/0130

#### 1. Application

ROOTS for Safety bv  
Mandenmakerstraat 51  
3194 DA Hoogvliet Rotterdam  
Netherlands

#### 2. Description

EN ISO 11612:2008



A1 B1 C1 E1 F1

EN342:2004



Icler = 0.36 (B)

X  
2  
X



### 3. Materials and accessories

#### **Outer fabric**

- FLA 185

#### **Intermediate lining**

- FR padding - 140g/m<sup>2</sup>

#### **Reflective Tape**

- Gio-Lite FR120
- Loxylight 9801
- MR-3591S
- Vizlite 301

#### **Seam**

- FLA185 with seam

#### **Assembly**

- FLA185 + FR padding + FLA185

#### **Garment**

- Jacket FR-02



#### 4. Technical documentation

##### Summary test results

EN ISO 11612:2008 Outer fabric **FLA 185**

Method	Description	Result	Class
ISO 15025:2000 Procedure B - after pretreatment	Flame spread on pre-treated fabric Procedure B	/	/
ISO 15025:2000 Procedure B - on original material	Flame spread Procedure B	/	/
ISO 15797	Pre-treatment	/	/
ISO 9185	Molten Aluminium splash (D)	/	/
ISO 5077	Dimensional change of woven textile mat.	PASS	
ISO 13934-1	Tensile strength	PASS	
ISO 13937-2	Tear strength	PASS	
ISO 6330	Pre-treatment	PASS	
ISO 15025:2000 Procedure A - on original fabric	Flame spread on original fabric Procedure A	PASS	A1
ISO 15025:2000 Procedure A - after pretreatment	Flame spread Procedure A	PASS	A1
ISO 9185	Molten iron splash (E)	PASS	E1
ISO 12127 (250°C)	Contact heat (F)	PASS	F1
ISO 9151	Convective Heat (B)	PASS	B1
ISO 6942 method B	Radiant Heat (C)	PASS	C1
ISO 17493	Heat Resistance 180°C	PASS	

EN ISO 13688:2013 Outer fabric **FLA 185**

Method	Description	Result	Class
ISO 1413 textiel	pH	PASS	
EN 14362-1:2003	Arylamines	PASS	
ISO 5077	Dimensional stability	PASS	

EN ISO 13688:2013 Intermediate lining **FR padding - 140g/m<sup>2</sup>**

Method	Description	Result	Class
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ISO 5077	Dimensional stability	/	/
EN 14362-1:2003	Arylamines	PASS	
ISO 1413 textiel	pH	PASS	

EN ISO 11612:2008 Reflective Tape **Loxylight 9801**

Method	Description	Result	Class
ISO 15797	Pre-treatment	/	/
ISO 6330	Pre-treatment	PASS	
ISO 15025:2000 - accessories	Flame spread op hardware + labels, badges, reflective tapes, ...	PASS	A1

EN ISO 11612:2008 Reflective Tape **MR-3591S**

Method	Description	Result	Class
ISO 6330	Pre-treatment	PASS	
ISO 15025:2000 - accessories	Flame spread op hardware + labels, badges, reflective tapes, ...	PASS	A1
ISO 15797	Pre-treatment	PASS	

EN ISO 11612:2008 Reflective Tape **Gio-Lite FR120**

Method	Description	Result	Class
ISO 6330	Pre-treatment	PASS	
ISO 15025:2000 - accessories	Flame spread op hardware + labels, badges, reflective tapes, ...	PASS	A1

EN ISO 11612:2008 Reflective Tape **Vizlite 301**

Method	Description	Result	Class
ISO 15797	Pre-treatment	/	/
ISO 6330	Pre-treatment	PASS	
ISO 15025:2000 - accessories	Flame spread op hardware + labels, badges, reflective tapes, ...	PASS	A1

EN ISO 11612:2008 Seam **FLA185 with seam**



Method	Description	Result	Class
ISO 15797	Pre-treatment	/	/
ISO 6330	Pre-treatment	PASS	
ISO 13935-2	Seam strength	PASS	
ISO 15025:2000 seam	Flame spread on seam	PASS	

EN342:2004 Seam **FLA185 with seam**

Method	Description	Result	Class
EN20811	Resistance water penetration		

EN342:2004 Assembly **FLA185 + FR padding + FLA185**

Method	Description	Result	Class
ISO 9237	Air permeability	PASS	Class 2
EN 31092	Water vapour permeability	PASS	

EN342:2004 Garment **Jacket FR-02**

Method	Description	Result	Class
ISO 15831 (Icle - Icler)	Thermal insulation(manikin)	PASS	Icler



## Description/Picture of article



The above picture is a general picture of the article. Possible variations of the above article can be present in the technical file.

### Note :

Any modification in material, design, or other technical features must be brought to the attention of the Notified Body.