



FIOH

notified by the Ministry of Social Affairs and Health
and identified under 0403 grants

EC TYPE EXAMINATION CERTIFICATE

12069NTS01rev9

for protective clothing against heat and flame
and thermal effects of electric arc
as defined in EN ISO 11612:2015, A1+A2 B1 C1,
and IEC 61482-2:2009 class 1 (4 kA)

Single-Layer Non-Anti-Static Protective Clothing
Coveralls 600, 601, 607, 608, 609, 727, 735,
Vented Coverall V06,
Jacket 620, Lab coat 628, Bib'n brace 640,
Trousers 661, 664, Shirt 663, Vented Shirt V63
Red Wing Shoe Company Inc.
Minnesota, USA

These products comply with Directive 89/686/EEC,
as amended

Helsinki, 10 August 2018
Expiry date: 21 April 2023

Minna Torenus
Specialist

Erja Tammela
Senior Specialist



1. Applicant

Red Wing Shoe Company Inc.
314 Main Street
Red Wing
55066 Minnesota
USA

2. Description and identification of the product

Type: Protective clothing against heat and flame, and thermal effects of electric arc as defined in EN ISO 11612:2015 and IEC 61482-2:2009

EN ISO 11612: Performance levels A1+A2 B1 C1
IEC 61482-2: Class 1 (4 kA)

Name: Single-Layer Non-Anti-Static Protective Clothing
Coveralls 600, 601, 607, 608, 609, 727, 735, 76041, 76042, 76045,
Vented Coverall V06
Jacket 620, Lab coat 628, Bib'n brace 640, Trousers 661, 664,
Shirt 663, Vented Shirt V63

Description: Garments can be made of the following alternative outer materials:

- Quality 20: Art# 802536, 100% CO, Twill, 250 g/m² (Daletec AS, Norway)
- Quality 25: Art# Ultra soft style 301, 88% CO/12% Nylon, 235 g/m² (Westex Inc., USA)
- Quality 28: Art# 142831, 75% CO, 25% PES, 290 g/m² (Daletec AS, Norway).

Optional ventilation openings under arms and in mid back in coveralls are made of FR antistatic knitted fabric, 60% Modacrylic, 37% CO, 3% carbon, 210 g/m². Zippers used are YKK Polyester Coil Zippers.

Ventilation openings in armpits of patterns V06 and V63 are made of mesh fabric quality BFCZ-083K, 98% Protex modacrylic, 2% PES, 160 g/m² (Changshu Baofeng Special Fiber Co. Ltd., China).

Garments can be provided with the following alternative retroreflective materials:

- Loxy art. 9801 Silver (Loxy AS, Norway)
- Loxy art. 9808 Trim yellow/silver/yellow (Loxy AS, Norway)
- 3M Scotchlite 9687 Trim yellow/silver/yellow (3M, Minnesota, USA).

Representative in Europe: Red Wing Shoe BV, Van Diemenstraat 272, NL-1013 CR Amsterdam, the Netherlands

Pictures of the standard patterns and specific styles are shown in Appendix 2. The style number comprises of 5 digits including the pattern number followed by the quality number.



3. Adequacy and validity of the technical documentation

The documentation supplied by the applicant is listed in Appendix 1. The technical documentation is considered adequate and valid. Materials of the products have been tested in accordance with harmonized European standards EN ISO 11612:2015 and IEC 61482-1-2:2007 by accredited testing laboratories. The models of the products supplied by the applicant conform to the technical documentation.

4. Compliance with basic health and safety requirements

The products and the technical documentation relating to them comply with the relevant basic health and safety requirements stated in Directive 89/686/EEC Annex II as amended, last amended by 96/58/EC.

Note: Any modification in design, materials, or in the technical documentation, carried out on these type examined products must be brought to the attention of FIOH.

Appendix 1. Technical documentation

Appendix 2. Pictures of the different standard patterns and specific styles

End of EC type examination certificate 12069NTS01rev9.



Technical documentation regarding EC type examination certificate 12069NTS01rev9

Product name: Single-Layer Non-Anti-Static Protective Clothing

Applicant: Red Wing Shoe Company Inc., 314 Main Street, Red Wing, 55066 Minnesota, USA

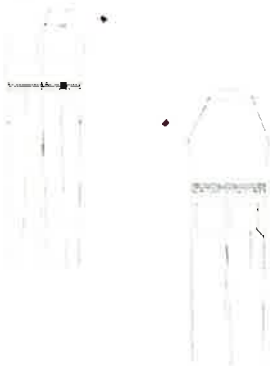
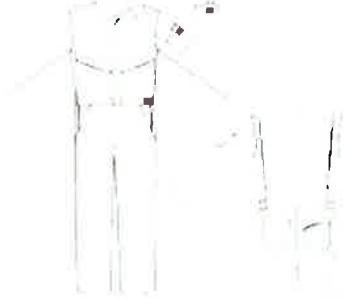
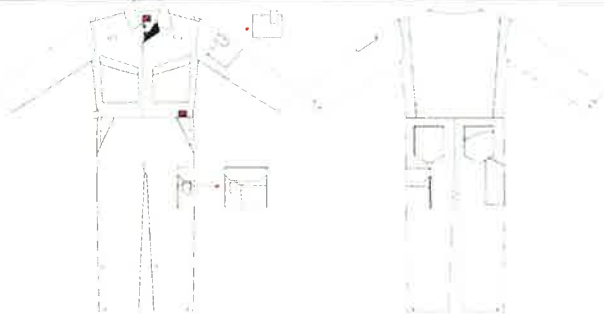
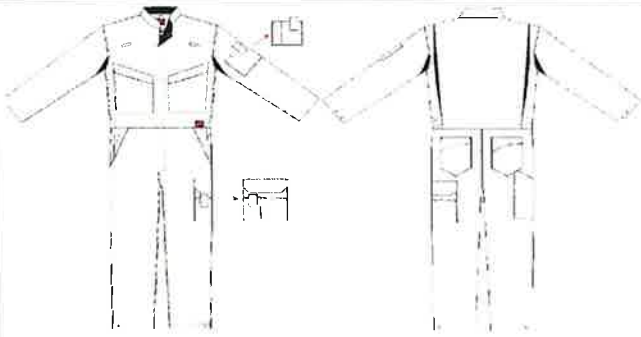
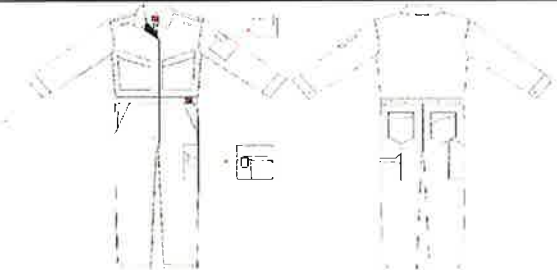

<i>Item of technical documentation</i>	<i>Document identification</i>	<i>Assessment</i>
1. Application for the EC type examination	2012-02-12 E-mail, 2013-05-24 2013-07-16 (Patterns 737 and 727) 2014-07-08 (Quality 16) 2014-10-07 (Quality 28) 2014-11-21 Material update request, 2016-12-15 Revision request, 2017-10-02 2018-07-11 (Patterns V06, V63)	
2. Product drawing, construction, and material list	Garment specifications	Products are identified and described, materials are specified
3. Compliance with Directive 89/686/EEC relevant basic requirements	The compliance assessment is based on reports mentioned below items 3.1-3.18	
3.1 FIOH assessment of relevant Directive basic requirements	2018-08-10	The applied harmonised standards EN ISO 13688:2013 and EN ISO 11612:2015 support the relevant requirements
3.2 West Yorkshire Materials Testing Service test report	No. 67494, 2014-11-14 Quality 20, Art# 802536	Material meets the requirements of EN ISO 11612:2015, A1 A2 B1 C1
3.3 West Yorkshire Materials Testing Service test report	No. 67563, 2014-11-28 Quality 20, Art# 802536	Material meets the requirements of IEC 61482-1-2:2007 class 1 (4 kA)
3.4 BTTG test report	Ref: 30/02830/2, 2006-09-25 Quality 25, Art# Indura Ultra Soft s/301	Material meets the requirements of EN ISO 11612:2015, A1 B1 C1
3.5 STFI test report	Test Certificate No. Z 3708/08-4785/08, 2008-06-20 Quality 25, Art# Indura Ultra Soft S/301	Material meets the requirements of IEC 61482-1-2:2007 class 1 (4 kA)
3.6 West Yorkshire Materials Testing Service test report	No. 38652-01, 2009-07-03 Quality 28, Art# 142831	Material meets the requirements of EN ISO 11612:2015, A1 B1 C1
3.7 FIOH test report	No. 364104T01, 2017-10-02 Quality 28, Art# 142831	Material meets the requirements of EN ISO 11612:2015 for limited flame spread A2
3:8 STFI test report	No. 0415/08, 2009-04-25 Quality 28, Art# 142831	Material meets the requirements of IEC 61482-1-2:2007 class 1 (4 kA)
3.9 SGS test report	No. SL517252776566TX, 2017-11-06 FR mesh BFCZ-083K	Material meets the requirements of EN ISO 11612:2015 for limited flame spread A1
3.10 FIOH test report	No. 163633T01rev1, 2011-06-30 Seam, chain stitch with overlocking and two stitchings	Seam meets the requirements of EN ISO 11612:2015 for limited flame spread A1+A2 and seam strength
3.11 Aitex test report	No. 2011EP0533, 2011-06-22 Coverall 601 in Art# 112241	Garments meet the requirements of IEC 61482-2:2009 class 1 (4 kA). Result can be applied to the garments with the same type of quality and accessories



3.12 FIOH test report	No. 176124T01, 2011-09-27 FR Antistatic Modacrylic Cotton Knit	Ventilation opening material meets the requirements of EN ISO 11612:2015, A1 B1 C1
3.13 FIOH test certificate	No. 325539T01rev1, 2016-11-11 LOXY 9801	Retroreflective material meets the requirements of EN ISO 20471:2013, EN ISO 11612:2015 for limited flame spread and heat resistance, and EN 1149-5:2008
3.14 Swerea IVF test report	Test Certificate, 2004-11-26 Stonor art. 9808	Retroreflective material meets the requirements of EN ISO 20471:2003 and EN ISO 14116:2015 index 3 for limited flame spread
3.15 MTL certificate of test	Certificate of Test, 2005-06-03 3M Scotchlite 9687 Fluorescent lime-yellow fire coat trim	Retroreflective material meets the requirements of EN ISO 20471:2013 for retroreflection (silver part) and for chromaticity (yellow part), and EN 469:2005 for heat resistance and for retroreflection after exposures to heat and radiant heat
3.16 FIOH test report	No. 362772T01, 2017-09-04 YKK Polyester Coil Zipper on fabrics Q11 & 21 and Q15	Zipper meets the requirements of EN ISO 11612:2015 for limited flame spread A1 and heat resistance
3.17 Draft information sheet	User information	Document meets the requirements of the Directive, EN ISO 13688:2013, EN ISO 11612:2015 and IEC 61482-2:2009
3.18 Product markings	Drafts of markings in the garment specifications	Markings meet the requirements of EN ISO 13688:2013, EN ISO 11612:2015 and IEC 61482-2:2009
4. Description of the production quality system and related product control and test facilities	ABS Quality Evaluations, Inc. ISO 9001:2008 Certificate No. 43276, 2012-05-21	Agreement with FIOH on the EC quality control system for the final product (PPE category III product)



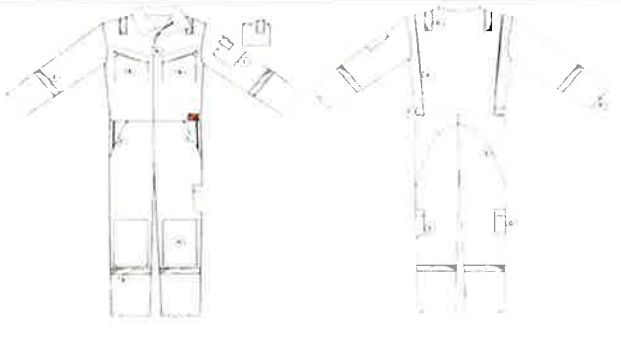

Pictures of the different basic standard patterns and specific styles

Style RW 600 FR Coverall 	Style RW 601 FR Coverall 
Style RW 607 FR Coverall 	Style RW 608 FR Coverall 
Style RW 609 FR Coverall 	Style RW 620 FR Jacket 



Style RW 628 FR Lab Coat	Style RW 640 Bib and Brace
	
Style RW 661 Trousers	Style RW 663 FR Shirt
	
Style RW 664 FR Trousers	Style RW 727 FR Coverall
	



Style RW 735 FR Coverall	Vented Coverall V06
	
Vented Shirt V63	
