



FIOH

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

EC TYPE EXAMINATION CERTIFICATE

16187WMS01rev2

for electrostatic dissipative high visibility clothing
against heat and flame, thermal effects of electric arc
and for use in welding and allied processes
as defined in EN 1149-5:2008, EN ISO 20471:2013,
coverall class 3, jacket and shirt class 2, trousers class 1,
combined sets of jacket or shirt with trousers class 3,
EN ISO 11612:2015, A1+A2 B1 C1 F1,
IEC 61482-2:2009 class 1 (4 kA)
and EN ISO 11611:2015, class 1 A1

**Single-Layer Anti-Static High Visibility Clothing
Styles Coverall 613, Jacket 632,
Shirt 667, Trousers 669**

Red Wing Shoe Company Inc.
Minnesota, USA

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

Helsinki, 16 October 2017
Expiry date: 15 October 2022

Minna Torenius
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: Electrostatic dissipative high visibility clothing against heat and flame, thermal effects of electric arc and for use in welding and allied processes as defined in EN 1149-5:2008, EN ISO 20471:2013, EN ISO 11612:2015, IEC 61482-2:2009 and EN ISO 11611:2015

EN ISO 20471: Coverall class 3, jacket and shirt class 2, trousers class 1; combined sets of jacket or shirt with trousers class 3
EN ISO 11612: Performance levels A1+A2 B1 C1 F1
IEC 61482-2: Class 1 (4 kA)
EN ISO 11611: Class 1 A1

Name: Single-Layer Anti-Static High Visibility Clothing
Styles Coverall 613, Jacket 632, Shirt 667, Trousers 669

Description: Garments are made of the following material:

- Quality 29: Art# 642881, 74% CO, 24% PES, 2% Carbon, 290 g/m² (Daletec AS, Norway).

Fluorescent parts are made in fluorescent yellow colour 2080 and non-fluorescent parts in colours 5781 Night Blue or 3928 Red.

Retroreflective material is Loxy art. 9801 Silver (Loxy AS, Norway).

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

Pictures of the styles are on page 3.

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 and the products have been tested in accordance with harmonized European standards EN 1149-5:2008, EN ISO 20471:2013, EN ISO 11612:2015, IEC 61482-2:2009 and EN ISO 11611:2015 by accredited testing laboratories. The models of the products supplied by the applicant conform to the technical documentation.



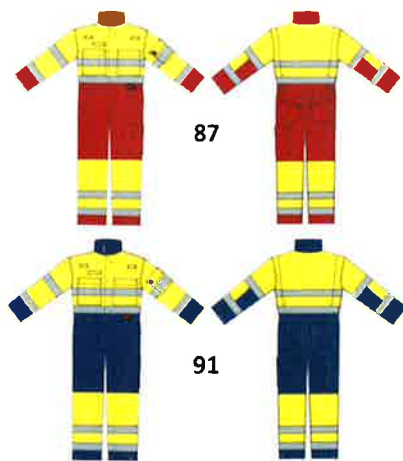
4. Compliance with basic health and safety requirements

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.

Pictures of the products

Coverall 613



Jacket 632



Shirt 667



Trousers 669



Appendix 1. Technical documentation

End of EC type examination certificate 16187WMS01rev2.



Technical documentation regarding EC type examination certificate 16187WMS01rev2

Product name: Single-Layer Anti-Static High Visibility Clothing
Styles Coverall 613, Jacket 632, Shirt 667, Trousers 669

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	2016-05-20 E-mail, 2016-11-24 Revision request, 2017-10-02	
2. Product drawing, construction, and material list	Garment specifications, 2016-05-18	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 3.1-3.12	
3.1 FIOH assessment of relevant Directive basic requirements	2017-10-16	The applied harmonised standards EN ISO 13688:2013, EN 1149-5:2008, EN ISO 20471:2013, EN ISO 11612:2015 and EN ISO 11611:2015 support the relevant requirements
3.2 West Yorkshire Materials Testing Service test report	No. 62958, 2014-01-21 Quality 29, Art# 642881, colour 2080, HV Yellow	Material and colour meets the requirements of EN ISO 20471:2013 for a woven background material
3.3 West Yorkshire Materials Testing Service test report	No. 65056, 2014-05-01 Quality 29, Art# 642881, colour 5781, Night Blue No. 66077 (Amendment 2), 2014-09-18 Quality 29, Art# 642881, colour 3928 Red	Non-fluorescent colours meet the requirements of EN ISO 20471:2013
3.4 West Yorkshire Materials test report	No. 57165, 2013-04-08 No. 57165-02, 2013-04-15 No. 57165-01, 2013-04-08 Quality 29, Art# 642881	Material meets the requirements of EN ISO 11612:2015, A1 B1 C1 E2 F1, EN 1149-5:2008 and EN ISO 11611:2015 class 1 A1
3.5 FIOH test report	No. 364104T01, 2017-10-02 Quality 29, Art# 642881	Material meets the requirements of EN ISO 11612:2015 and EN ISO 11611:2016 for limited flame spread A2
3.6 STFI test report	Certificate of Test No. Z 4071/09-5166/09, 2009-03-27 Quality 29, Art# 642881	Material meets the requirements of IEC 61482-2:2009 class 1 (4 kA)
3.7 Aitex test report	No. 2011EP0532, 2011-06-21 Coverall 601 in quality art 4531, quality 00	Garment meets 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
3.8 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 of EN 1149-5:2008
3.9 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 and EN ISO 11611:2015 for limited flame spread A1+A1 and for seam strength



3.10 FIOH test record	Assessment of the design and measurement of the areas, 2014-04-07, 2014-10-29 Assessment of design EN ISO 11611:2015, 2016-05-23	Design of garments meets the requirements of EN ISO 20471:2013, EN 1149-5:2008, EN ISO 11612:2015, IEC 61482-2:2009 and EN ISO 11611:2015. Coverall meets class 3, jacket and shirt class 2, trousers class 1 and combinations of jacket or shirt with trousers class 3 for areas of visible materials as defined in EN ISO 20471:2013
3.11 Draft information sheet	User information Heat and flame and High Visibility	Documents meet the requirements of the Directive, EN ISO 13688:2013, EN 1149-5:2008, EN ISO 20471:2013, EN ISO 11612:2015, IEC 61482-2:2009 and EN ISO 11611:2015
3.12 Product markings	Drafts of markings in the garment specifications	Markings meet the requirements of EN ISO 13688:2013, EN 1149-5:2008, EN ISO 20471:2013, EN ISO 11612:2015, IEC 61482-2:2009 and EN ISO 11611:2015
4. Description of the production quality system and related product control and test facilities	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)