



Finnish Institute of  
Occupational Health

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

# EC TYPE EXAMINATION CERTIFICATE

15117HNS01

for protective clothing against heat and flame  
as defined in EN ISO 11612:2008, A1 B1 C2  
**FR Hard Hat Liner 69014, FR Balaclava 69015,  
FR Hard Hat Liner 69016, FR Balaclava 69017**  
Red Wing Shoe Company  
Red Wing, USA

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

Helsinki, 12 May 2015  
Expiry date: 11 May 2020

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## 1. Applicant

Red Wing Shoe Company  
314 West Main Street  
Red Wing MN, 55066  
USA

## 2. Description and identification of the product

Type: Protective clothing against heat and flame as defined in EN ISO 11612:2008, performance levels A1 B1 C2

Name: FR Hard Hat Liner 69014, FR Balaclava 69015,  
FR Hard Hat Liner 69016, FR Balaclava 69017

Description: Outer material of FR Hard Hat Liners is FR cotton twill fabric Tecron® FRCA260, 260 g/m<sup>2</sup>.  
Inner lining of style 69014 is modacrylic cotton brushed fleece, 260 g/m<sup>2</sup>.  
Inner lining of style 69016 is modacrylic cotton brushed fleece, 360 g/m<sup>2</sup>, and it is provided with interlining of PU membrane.

Material of FR Balaclava 69015 is modacrylic cotton brushed fleece, 360 g/m<sup>2</sup>.

Outer material of FR Balaclava 69017 is modacrylic cotton brushed fleece with PU membrane laminated, 560 g/m<sup>2</sup>. Inner lining is modacrylic cotton brushed fleece, 260 g/m<sup>2</sup>.

Reflective material is quality YSL Vizlite 301, silver (Zhejiang Fangyuan Yeshili Reflective Material Co. Ltd., China).

Manufacturer: Red Wing Shoe Company, 314 West Main Street, Red Wing MN, 55066, USA

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

Pictures of the products 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 of the products have been tested in accordance with a harmonized European standard EN ISO 11612:2008 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

FR Hard Hat Liner 69014



FR Balaclava 69015



FR Hard Hat Liner 69016



FR Balaclava 69017



Appendix 1. Technical documentation

End of EC type examination certificate 15117HNS01.



### Technical documentation regarding EC type examination certificate 15117HNS01

Product name: FR Hard Hat Liner 69014, FR Balaclava 69015, FR Hard Hat Liner 69016,  
FR Balaclava 69017

Applicant: Red Wing Shoe Company, 314 West Main Street, Red Wing MN, 55066, USA

Item of technical documentation	Document identification	Assessment
1. Application for the EC type examination	2015-02-06	
2. Product drawing, construction, and material list	Technical specifications, 2015-05-11: <ul style="list-style-type: none"> <li>FR Hard Hat Liner 69014</li> <li>FR Balaclava 69015</li> <li>FR Hard Hat Liner 69016</li> <li>FR Balaclava 69017</li> </ul>	Products are identified, materials are specified
3. Compliance with Directive 89/686/EEC relevant basic requirements	The compliance assessment is based on reports mentioned below items 3.1-3.9	
3.1 FIOH assessment of relevant Directive basic requirements	2015-05-12	The applied harmonised standards EN ISO 13688:2013 and EN ISO 11612:2008 support the relevant requirements
3.2 FIOH test report	No. 29221T02, 2010-03-09 Quality AL070250-147/260 25	Material meets the requirements of EN ISO 11612:2008, A1 B1 C1
3.3 BTTG test report	No. 30/07697/3, 2015-02-05 Tecron FRCA260	Material meets the requirements of EN ISO 11612:2008, A1 A2 B1 C1
3.4 SGS test report	No. SDHG1307004653FB, 2013-07-10 MAC cotton polar fleece	Material meets the requirements of EN ISO 11612:2008, A1 for flame spread
3.5 FIOH test report	No. 308001T01, 2015-05-08 Modacrylic cotton brushed fleece Models of FR Hard Hat Liners and FR Balaclava	Material meets the requirements of EN ISO 11612:2008 levels B1 C2 and for heat resistance, dimensional change and for pH. Seams meet the requirements for flame spread A1 and seam strength. Products meet requirements for heat resistance
3.6 BTTG test report	Ref: 30/07697/3, 2015-02-05 Tecron® FRCA260	Material meets the requirements of EN ISO 11612:2008, A1 A2 B1 C1
3.7 Satra test report	SPC0186603/1/1028, 2010-08-04 SPC0186603/2/1028, 2010-08-04 SPC0187510/1038/1 (Issue 2), 2011-01-11 YSL Vizlite 301 silver	Retroreflective material meets the requirements of EN ISO 20471:2013 and ANSI/ISEA107-2010, and of EN ISO 14116:2008 for flame spread index 3/5H/60
3.8 Draft information sheet	User Instructions Red Wing Workwear	Document meets the requirements of the Directive, EN ISO 13688:2013 and EN ISO 11612:2008
3.9 Product markings	Labels, 2015-05-11	Markings meet the requirements of EN ISO 13688:2013 and EN ISO 11612:2008
4. Description of the production quality system and related product control and test facilities	ISO 9001:2008 Certificate No. 43276, 2012-05-21	Adequate to category II products