



Finnish Institute of  
Occupational Health

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

# EC TYPE EXAMINATION CERTIFICATE

13097VFS01rev1

for high visibility clothing as defined in  
EN ISO 20471:2013  
class 2 for minimum areas of visible materials  
**HV Vest 9153**  
Hultafors Group AB  
Danderyd, Sweden

This product complies with Directive 89/686/EEC, as amended

Helsinki, 30 May 2016  
Expiry date: 29 March 2021

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Leading Specialist

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Specialist



## 1. Applicant

Hultafors Group AB  
Box 745  
SE-182 53 Danderyd  
Sweden

## 2. Description and identification of the product

Type: High visibility clothing as defined in EN ISO 20471:2013  
Class 2 for minimum areas of visible materials

Name: HV Vest 9153

Size range: S/M ->

Description: Vest is made of a fluorescent yellow (YD-014) or orange (YD-015) mesh fabric, 100% PES, 120-125 g/m<sup>2</sup> (Haining City Yueda Warp Knitting Co., Ltd, China).  
Retroreflective material is quality CSR-1303 (Hangzhou Chinastars Reflective Material Co., Ltd., China).

Manufacturer: Hultafors Group AB, Box 745, SE-182 53 Danderyd, Sweden

Picture of the product is 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 product have been tested in accordance with a harmonized European standard EN ISO 20471:2013 by accredited testing laboratories. The model of the product supplied by the applicant confirms to the technical documentation.

## 4. Compliance with basic health and safety requirements

The product and the technical documentation relating to it 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 this type examined product must be brought to the attention of FIOH.



Picture of the product

HV Vest 9153



Appendix 1. Technical documentation

End of EC type examination certificate 13097VFS01rev1.



### Technical documentation regarding EC type examination certificate 13097VFS01rev1

Product name: HV Vest 9153

Applicant: Hultafors Group AB, Box 745, SE-182 53 Danderyd, Sweden

<i>Item of technical documentation</i>	<i>Document identification</i>	<i>Assessment</i>
1. Application for the EC type examination	2013-03-04 email 2016-05-24	
2. Product drawing, construction, and material list	Technical specification: • High Vis Vest 9153, 2016-05-23 Product and Material list	Product is 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 3.1-3.6	
3.1 FIOH assessment of relevant Directive basic requirements	2016-05-30	The applied harmonised standards EN 13688:2013 and EN ISO 20471:2013 support the relevant requirements
3.2 TÜV Rheinland test report	No. 15051143 001, 2012-05-09 No. 15080618 001, 2015-03-06 YD-014, HV Yellow YD-015, HV Orange	Fluorescent background materials meet the requirements of EN ISO 20471:2013 for a knitted fabric
3.3 Satra test report	Ref. SPC0218053/1338, 2013-09-19 Quality CSR-1303	Retroreflective material meets the requirements of EN ISO 20471:2013
3.4 FIOH test record	Assessment of the design and measurement of areas, 2013-03-08	Vest in size S/M meets the requirements of class 2 according to the minimum areas of visible materials as defined in EN ISO 20471:2013. Area of reflective material 0.14 m <sup>2</sup> and fluorescent material 0.50 m <sup>2</sup>
3.5 Draft information sheet	CE – High Vis Booklet L019100	Document meets the requirements of the Directive, EN ISO 13688:2013 and EN ISO 20471:2013
3.6 Product markings	Info labels in Technical specifications	Markings meet the requirements of EN ISO 13688:2013 and EN ISO 20471:2013
4. Description of the production quality system and related product control and test facilities	Quality assurance process	Adequate to a category II product