

TECHNICAL REPORT FOR EU TYPE-EXAM CERTIFICATION of Personal Protective Equipment (PPE)

EU TYPE EXAMINATION Nº:

UE-000256/00

APPLICATION DATE:

02/09/2022

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21/02/2023

APPLICANT:

WELDAS EUROPE B.V
BLANKENWEG 18, 4612 RC BERGEN OP ZOOM
NETHERLAND

PPE TYPE:

PANTS / BIB AND BRACE

REFERENCE (PPE):

44-7440/7600 and variant 44-7440/7648

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ANNEX. - EU Type-Examination Certificate

1. PPE IDENTIFICATION

1.1 Description and photograph

Pants manufactured in brown leather and red fabric braces. The closures present snap buttons. Bib and braces variant manufactured in brown leather and red fabric braces. It presents a zipper, hook + loop and snap buttons as closures.

44-7440/7600



44-7440/7648





1.2 Description of the components

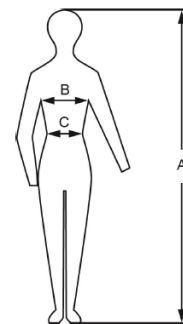
PPE components according to the information supplied by the manufacturer:

- Brown split cow leather.
- Black hook and loop.
- Red fabric strap.
- Black plastic adjustment.
- Snap button.
- Zipper.

1.3 Sizes

The size chart supplied by the manufacturer:

	S	M	L	XL	2XL	3XL	4XL
	44	48	52	56	60	64	66
A	166-170	170-176	176-180	180-184	184-188	188-196	197-200
	88-96	96-104	104-112	112-120	120-128	128-136	160
	76-84	84-92*	92-102*	100-112*	112-124*	124-136*	114
* = art.nr. 44-7440/7600							



1.4 Samples given for certification

On date 19/10/2022 we receive in the laboratory one garment of each reference; 44-7440/7600 and 44-7440/7648.

2. CERTIFICATION SCOPE

- **EN ISO 13688:2013** and **EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.
- **EN ISO 11611:2015** Protective clothing for use in welding and allied processes

For the protection of the user hip and lower limbs, except feet, against the following risks:

- Risk of burning due to contact with small splashes of molten metal.
- Risk of burning due to a short exposure to limited flame.
- Risk of burning due to radiant heat.
- Risk of short electric discharge.

3. DOCUMENTATION SUBMITTED

Technical documentation, including the next points:

- Complete description of the PPE and of its intended use
- Assessment of the risks against which the PPE is intended to protect
- List of the essential health and safety requirements that are applicable
- Design and manufacturing drawings and schemes of the PPE and of its components and explanations
- Reference of the harmonized standards and/ or other technical specifications
- Reports on the tests carried out to verify the conformity of the PPE
- A description of the means used by the manufacturer during the production (Modulo C)
 - Manufacturer's instructions
 - Marking
 - Declaration of conformity

4. RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND ANNEX II OF REGULATION (EU) 2016/425 ON PPE

- EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021 Protective clothing – General requirements.

Essential Health and Safety Requirements, according to Annex II of Regulation (UE) 2016/425	Clause(s) / sub-clause(s) of the standard EN ISO 13688:2013/A1:2021	Result
1.2.1 Absence of risk and other inherent nuisance factors	5.3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.2.1.1 Suitable constituent materials	4.2	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.2.1.2 Satisfactory Surface condition of all PPE parts in contact with the user	4.4	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	8	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	6; 7	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

- **EN ISO 11611:2015** Protective clothing for use in welding and allied processes

Essential requirements of Annex II of the EU Directive 89/686/EEC ⁽¹⁾	Clause(s) / sub-clause(s) of the standard EN ISO 11611:2015	Result
1.2.1. Absence of inherent risk and other nuisance factors	4.1; 4.2; 4.3; 4.5; 4.6; 4.7; 6.6; 6.10 y 6.11	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.3.1 Adaptation of PPE to user morphology	4.4	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	5.2; 8	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.4 PPE subject to ageing	5.3	Meet <input type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input checked="" type="checkbox"/>
1.3.2 Lightness and strength	6.2; 6.3; 6.4 y 6.5	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
3.6.1 PPE constituent materials and other components	6.7; 6.8; 6.9	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
3.6.2 Complete PPE ready for use	6.8; 6.9	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.1.2.2 Classes of protection appropriate to different levels of risk	6.1; 6.8 y 6.9	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.12 PPE bearing one or more identification markings or indicators direct	7	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

⁽¹⁾ Warning: In order to comply with this non-harmonized standard according to Regulation (EU) 2016/425, the risk assessment carried out by the manufacturer, in its technical documentation, shall be studied and thus assess whether or not it is necessary to add any requirement granting compliance with the applicable minimum essential health and safety requirements, for the type of risk to which the user may be exposed.

5. DESIGN EVALUATION

- **EN ISO 11611:2015** Protective clothing for use in welding and allied processes

Requirement
After design evaluation according to point 4 of EN ISO 11611:2015, the PPE is determined to be:
Conforming <input checked="" type="checkbox"/> Non-conforming <input type="checkbox"/>

6. COMFORT EVALUATION

- **EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.

Requirement
After the comfort evaluation according to point 4.4 of Standards EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021, the PPE is determined to be:
Conforming <input checked="" type="checkbox"/>
Non-conforming <input type="checkbox"/>

7. SIZING EVALUATION

- **EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.

Requirement
After evaluation of the sizing according to point 6 and Annex D of Standard EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021, it is determined that the PPE is:
Conforming <input checked="" type="checkbox"/>
Non-conforming <input type="checkbox"/>

8. SUMMARY OF RESULTS

LEGEND RESULTS	
M	Meet
NM	Not meet
NA	Not applicable
NT	Not tested
*UoM.	Uncertainty of measurement

- EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021 Protective clothing – General requirements.

TEST	APPLIES ON	STANDARD	REQUIREMENTS	*UoM.	REPORT Nº	RESULT
Cr (VI) Innocuousness point 4.2	Each layer of material (Leather)	ISO 17075-1:2017 or ISO 17075-2:2017	EN ISO 13688:2013/A1:2021, point 4.2, a) Shall not exceed < 3mg/kg	NA	AR-23-YL-100983-01	M
Nickel Innocuousness point 4.2	All metallic materials which could come in contact with the skin	EN 1811:2011+A1:2015	EN ISO 13688:2013/A1:2021, point 4.2, b) Shall have a release of nickel of less than < 0,5µg/cm ² per week.	±8%	AR-23-YL-100983-01	M
pH Innocuousness point 4.2	All materials	Textile ISO 3071:2020 Leather ISO 4045:2018	EN ISO 13688:2013/A1:2021, point 4.2 c) Greater than 3,5 and less than 9,5	±0,3	AR-23-YL-100983-01	M
Azo colorants which release carcinogenic amines listed Innocuousness point 4.2	All materials	ISO 14362-1:2017 and ISO 14362-3:2017 ⁽¹⁾	EN ISO 13688:2013/A1:2021, point 4.2 Shall be no detectable	NA	AR-23-YL-101087-01	M
Comfort point 4.4	Protective clothing	EN ISO 13688:2013, point 4.4 and EN 13921	EN ISO 13688:2013, point 4.4 and Annex C	NA	Point 6 of this report	M
Dimensional change due to cleaning after pre-treatment point 5.3	Protective clothing or textile	Washed ISO 5077 Dry cleaned ISO 3175-1	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 5.3 ≤ ±3% (woven) or ≤ ±5% (Knitted)	NA	NA	NA
General size designation point 6	Protective clothing	ISO 8559-1:2017, EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 6 and Annex D	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 6 and Table 1	± 0,21	Point 7 of this report	M
Marking point 7	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 7 and Annex E			NA	NA	M
Information supplied by the manufacturer point 8	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 8			NA	NA	M

⁽¹⁾The Azo colorants are tested according to ISO 17234-2:2011 and ISO 17234-1:2020 when leather material.

- EN ISO 11611:2015 Protective clothing for use in welding and allied processes

TEST	APPLIES ON	STANDARD	REQUIREMENTS	*UoM.	REPORT Nº	RESULT
General and design requirements point 4	-	EN ISO 11611:2015, point 4 and EN ISO 13688	EN ISO 11611:2015, point 4	NA	Point 5 of this report	M
Pre-treatment ⁽¹⁾ point 5.2	Materials / garment	-	EN ISO 11611:2015, point 5.2	NA	NA	NA
Ageing ⁽¹⁾ point 5.3	Materials / garment	-	EN ISO 11611:2015, point 5.3	NA	NA	NA
Classification point 6.1	Garment	EN ISO 11611:2015	EN ISO 11611:2015, point 6.1, Annex A Class 1 / Class 2	NA	NA	M Class 2
Tensile strength, after pre-treatment point 6.2	Woven outer material / Leather	ISO 13934-1 (woven) ISO 3376 (leather)	EN ISO 11611:2015, point 6.2 ≥ 400N (woven) ≥ 80N (leather)	±5,2%	AR-23-YL-100983-01	M
Tear strength, after pre-treatment point 6.3	Woven outer material / Leather	ISO 13937-2 (woven) ISO 3377-1 (leather)	EN ISO 11611:2015, point 6.3 Class 1 ≥ 15N Class 2 ≥ 20N	±13N	AR-23-YL-100983-01	M Class 2
Burst strength, after pre-treatment point 6.4	Knitted outer materials	ISO 13938-1 or ISO 13938-2	EN ISO 11611:2015, point ≥ 100 kPa (50cm ²) ≥ 200 kPa (7,3cm ²)	NA	NA	NA
	Structural seams in knitted materials			NA	NA	NA
Seam strength, after pre-treatment point 6.5	Structural seams of woven outer materials	ISO 13935-2	EN ISO 11611:2015, point 6.5 ≥ 225 N	± 36 N / ± 51 N	AR-23-YL-100983-01	M
Dimensional change, after pre-treatment point 6.6	Garment or each fabric layer	ISO 5077, point 6.6	EN ISO 11611:2015, point 6.6 ≤ ±3% (woven) ≤ ±5% (knitted)	NA	NA	NA
Limited flame spread of the new material (Procedure A) Outer face point 6.7.2	Fabric / Outer assembly	EN ISO 11611:2015, point 6.7.2, 6.7.3 and ISO 15025	EN ISO 11611:2015, point 6.7.2 The flame does not reach the upper or either vertical edge No flaming or molten debris - No hole formation - Afterglow ≤ 2s - Afterflame ≤ 2s	±8,8%	AR-23-YL-100983-01	M A1
Limited flame spread, after pre-treatment (Procedure A) Outer face point 6.7.2	Fabric / Outer assembly			NA	NA	NA
Limited flame spread of the new material (Procedure A) Inner face point 6.7.2	Fabric / Outer assembly			NA	NA	NA

TEST	APPLIES ON	STANDARD	REQUIREMENTS	*UoM.	REPORT Nº	RESULT
Limited flame spread, after pre-treatment (Procedure A) Inner face point 6.7.2	Fabric / Outer assembly			NA	NA	NA
Limited flame spread of the new material (Procedure B) ⁽¹⁾ point 6.7.3	Fabric / Outer assembly		EN ISO 11611:2015, point 6.7.3 The flame does not reach the upper or either vertical edge No flaming or molten debris - Afterglow ≤ 2s - Afterflame ≤ 2s	±8,8%	AR-23-YL-100983-01	M A2
Limited flame spread, after pre-treatment (Procedure B) ⁽¹⁾ point 6.7.3	Fabric / Outer assembly			NA	NA	NA
Limited flame spread, after pre-treatment (Procedure A) point 6.7.2	Seams		EN ISO 11611:2015, point 6.7.3 The flame does not reach the upper or either vertical edge No flaming or molten debris - Afterglow ≤ 2s - Afterflame ≤ 2s	±8,8%	AR-23-YL-100983-01	M A1
Limited flame spread, after pre-treatment (Procedure B) ⁽¹⁾ point 6.7.3	Seams		EN ISO 11611:2015, point 6.7.3 The flame does not reach the upper or either vertical edge No flaming or molten debris - Afterglow ≤ 2s - Afterflame ≤ 2s Seams do not separate	±8,8%	AR-23-YL-100983-01	M A2
Limited flame spread, after pre-treatment (Procedure A) point 6.7.2	Hardware		EN ISO 11611:2015, point 6.7.2 The flame does not reach the upper or either vertical edge No flaming or molten debris - Afterglow ≤ 2s - Afterflame ≤ 2s Closure system open at least once	±8,8%	AR-23-YL-100983-01	M A1
Small splashes of molten metal, after pre-treatment point 6.8	Fabric / Outer assembly	ISO 9150	EN ISO 11611:2015, point 6.8 Class 1: ≥ 15 and < 25 drops Class 2: ≥ 25 drops	NA	AR-23-YL-100983-01	M Class 2
Heat transfer (radiation), after pre-treatment point 6.9	Fabric / Outer assembly	ISO 6942 (Method B)	EN ISO 11611:2015, point 6.9 Class 1: 16 > RHTI 24 ≥ 7 Class 2: RHTI 24 ≥ 16	±1 s	AR-23-YL-100983-01	M Class 2
Electrical resistance, after pre-treatment point 6.10	Fabric / Outer assembly and seams	EN 1149-2	EN ISO 11611:2015, point 6.10 > 10 ⁵ Ω	±2,20x 10 ⁶ Ω	AR-23-YL-100983-01	M
Fat content of leather point 6.11	Leather	ISO 4048:2008	EN ISO 11611:2015, point 6.11 ≤ 15%	±4%	AR-23-YL-100983-01	M
Marking point 7	EN ISO 11611:2015, point 7 + EN ISO 13688, point 7			NA	NA	M
Information supplied by the manufacturer point 8	EN ISO 11611:2015, point 8 + EN ISO 13688, point 8			NA	NA	M

9. CONCLUSION

Based on the results obtained in the exams, evaluations and revisions the following can be deduced:

The PPE type **PANTS or BIB AND BRACE** reference **44-7440/7600** with variant **44-7440/7648** with Class 2 protection (A1 + A2), classified as Category **II** Individual Protective Equipment and whose characteristics are stated in point 1 of this report, **COMPLIES** with the essential requirements established by Regulation (EU) 2016/425 of 9 March 2016 through the application of the standards and risks as stated in point 2 of this report.

On 21st of February 2023

Signature of the conformity evaluator:

