

EU Type-examination Certificate

Number:
UE-000092/00



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Softlines
& Leather

MID OCEAN BRANDS BV

WELLENSIEKSTRAAT 2
6718 XZ EDE GLD - THE NETHERLANDS

Certificate issued by **Eurofins Textile Testing Spain, S.L. (Unipersonal)** as notified body n° 2865 in accordance with Annex V (Module B) of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment (PPE).

PPE Type REFLECTIVE STRAP

Reference KC8282.- 08

Variant(s) -

Description / Sizes: Foldable yellow reflective arm strap with black velvet backing.

Sizes: KC8282.-08 (30 x 320 mm)

The protective equipment abovementioned complies with the essential health and safety requirements applicable, according to Annex II of Regulation (EU) 2016/425 as **Category II** PPE.

Harmonised standard(s):

- EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021
- EN 17353:2020

Performance level(s) obtained:

- **Type B2** - Dark conditions (limbs)

Other technical specifications:

For Category III PPE, this EU type-examination certificate must be used in conjunction with one of the conformity assessment procedures base on internal production control plus supervised product checks at random intervals (Module C2) or based on the quality assurance of the production process (Module D), according to Regulation (EU) 2016/425.



Marta Nieto Araujo
Certification director

Date of Issue: 25/07/2022
Expiry date: 25/07/2027
Renovation date: __/__/__

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

EU TYPE EXAMINATION Nº:

UE-000092/00

APPLICATION DATE:

06/07/2021

DATE OF ISSUE:

25/07/2022

APPLICANT:

MID OCEAN BRANDS BV
WELLENSIEKSTRAAT 2
6718 XZ EDE GLD - THE NETHERLANDS

PPE TYPE:

REFLECTIVE STRAP

REFERENCE (PPE):

KC8282.- 08

INDEX:

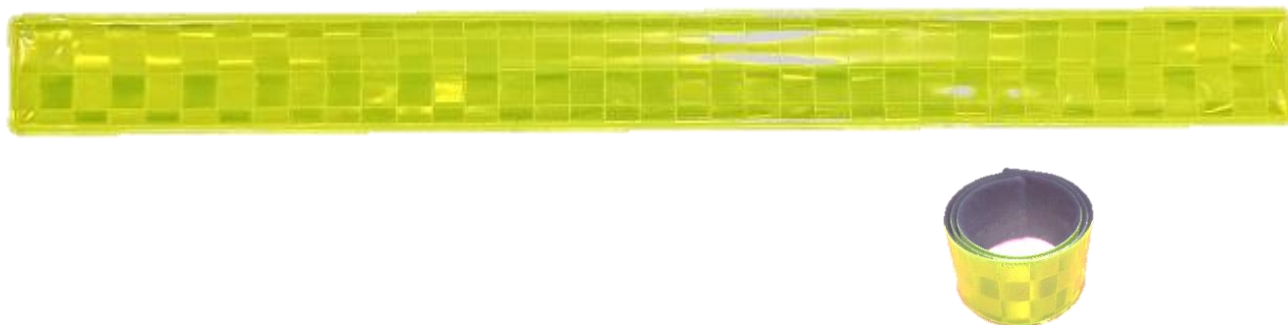
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ANNEX. - EU Type-Examination Certificate

1. jPPE IDENTIFICATION

1.1 Description and photography

KC8282.- 08



1.2 Description of the components

PPE components according to the information supplied by the manufacturer:

Reflective arm strap foldable with black velvet backing

Reflective Polyvinyl chloride (colour: Yellow)

- 1- Frame part (Inside): Carbon Steel (Carbon 0,17%, Silicone 0,17%, Manganese 0,65%, Phosphorus 0,035% Sulphur 0,035%, Nickel 0,25%, Chromium 0,25%, Copper 0,25%, Iron 98,19%)
- 2- Reflective part (Outside): Polyvinyl chloride (PVC)
- 3- Inner part (Inside): Polyvinyl chloride (PVC)

1.3 Sizes

The size chart supplied by the manufacturer:

REFERENCE	SIZE	Width (mm)	Length (mm)
KC8282.- 08	One size	30	320

1.4 Samples given for certification

On 23/12/2021 eighteen (18) reflective strips arrive at the laboratory, nine (9) for each size and inner black and white materials. On 25/02/2022, we received a piece of white material.

2. CERTIFICATION SCOPE

- **EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.
- **EN 17353:2020** Protective equipment. Visibility clothing for non-professional use. Requirements and test methods.
 - Risk of not being seen in daylight conditions. Type A
 - Risk of not being seen in dark conditions. Type B
 - Risk of not being seen during daylight, twilight and darkness. Type AB

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 ☒
		Not meet ☐
		Not applicable ☐
1.2.1.1 Suitable constituent materials	4.2	Meet ☒
		Not meet ☐
		Not applicable ☐
1.2.1.2 Satisfactory Surface condition of all PPE parts in contact with the user	4.4	Meet ☒
		Not meet ☐
		Not applicable ☐
1.4 Manufacturer's instructions and information	8	Meet ☒
		Not meet ☐
		Not applicable ☐
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	6; 7	Meet ☒
		Not meet ☐
		Not applicable ☐

- **EN 17353:2020** Protective clothing. Enhanced visibility equipment for medium risk situations – Test methods and requirements

Essential Health and Safety Requirements, according to Annex II of Regulation (UE) 2016/425	Clause(s) / sub-clause(s) of the standard EN 17353:2020	Result
1.1.2.2 Classes of protection appropriate to different levels of risk	4.1	Meet ☒
		Not meet ☐
		Not applicable ☐
1.2.1 Absence of inherent risks and other nuisance factors	4.1, 4.2, 5.2, 5.3, 5.4, 6.2	Meet ☒
		Not meet ☐
		Not applicable ☐
1.3.2 Lightness and strength	6.1.2, 6.1.3, 6.4	Meet ☒
		Not meet ☐
		Not applicable ☐
1.4 Manufacturer's instructions and information	8, 9	Meet ☒
		Not meet ☐
		Not applicable ☐
2.4 PPE subject to ageing	7.5	Meet ☐
		Not meet ☐
		Not applicable ☒
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	8	Meet ☒
		Not meet ☐
		Not applicable ☐
2.13 PPE capable of signalling the user's presence visually	6.1.1, 6.3.1, 6.3.2, 6.3.3	Meet ☒
		Not meet ☐
		Not applicable ☐

5. COMFORT EVALUATION

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

Requirements

After the design evaluation according to point 4.4 of EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021 it is determined that the PPE is:

Conforming ☒
Non-conforming ☐

6. SIZING EVALUATION

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

Requirements

After evaluation of the sizing according to point 6 of EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021, it is determined that the PPE is:

Conforming ☒
Non-conforming ☐

7. TYPE EVALUATION

- **EN 17353:2020** Protective equipment. Visibility clothing for non-professional use. Requirements and test methods.

Requirements

After the evaluation of type according to points 4.1 of Standard EN 17353:2020, the PPE is determined:

Type A ☐
Type B1 ☐
Type B2 ☒
Type B3 ☐
Type AB2 ☐
Type AB3 ☐

8. EVALUATION OF MINIMUM AREA OF VISIBLE MATERIAL

- **EN 17353:2020** Protective equipment. Visibility clothing for non-professional use. Requirements and test methods.

Requirement

After the evaluation of the minimum area of visible material according to point 4.2 of Standard EN 17353:2020, the PPE is determined:

Conforming ☒

Non-conforming ☐

9. SUMMARY OF RESULTS

LEGEND RESULTS	
M	Meet
NM	Not meet
NA	Not applicable
NT	Not tested

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

Test	BE APPLICATED	STANDARD	REQUERIMENTS	*UoM.	REPORT N°	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	NA	NA
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/cm² per week.	NA	NA	NA
pH Innocuousness point 4.2	White inner layer	Textile ISO 3071:2020 Leather ISO 4045	EN ISO 13688:2013/A1:2021, point 4.2 c) Greater than 3,5 and less than 9,5	± 0,3	AR-22-YL-001994-02	M
	Black back side Yellow front side				AR-22-YL-011744-02	
Azo colorants which release carcinogenic amines listed Innocuousness point 4.2	Yellow front side Black back side	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-22-YL-011744-02	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 5 of this report	M
Dimensional change due to cleaning after pre-treatment point 5.3	Protective clothing o 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	± 1 mm	Point 6 of this report	M
Marking point 7	EN ISO 13688:2013, point 7 y Annex E			NA	NA	M
Information supplied by the manufacturer point 8	ENISO 13688:2013, point 8			NA	NA	M

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

- **EN 17353:2020** Protective clothing. Enhanced visibility equipment for medium risk situations – Test methods and requirements

TEST	BE APLICATES	STANDARD	REQUIERIMENTS	*UoM.	REPORT N°	RESULT
Types point 4.1	Garments	EN 17353:2020, point 4.1	EN 17353:2020, point 4.2 3 types based on the foreseeable type of use	NA	Point 7 of this report	Type B2
Minimum area requirements point 4.2	Garment or equipment	EN 17353:2020, point 4.2	EN 17353:2020, point 4.2 Table 2: as required by Type B1 and Type B2; or Table 3: as required by garment Type A, Type B3 and Type AB.	± 1 mm	Point 8 of this report	M
TYPE A General point 5.2.1	Type A	EN 17353:2020, point 5.2.1	EN 17353:2020, point 5.2.1 (Table 3) Fluorescent material ≥ 0,14	NA	NA	NA
TYPE A Visibility from all sides point 5.2.2	Type A	EN 17353:2020, point 5.2.2	EN 17353:2020, point 5.2.2 (see Annexes C and D) (Table 3)	NA	NA	NA
TYPE B General point 5.3.1	Type B Retroreflective Material	EN 17353:2020, point 5.3.1	EN 17353:2020, point 5.3.1 Minimum quantity of retroreflective material according to Table 2 and Table 3	± 1 mm	Point 8 of this report	M
TYPE B1 Free handing devices point 5.3.2	Type B1 Retroreflective Material	EN 17353:2020, point 5.3.2	EN 17353:2020, point 5.3.2	NA	NA	NA
TYPE B2 Equipment for limbs point 5.3.3	Type B2 Retroreflective Material	EN 17353:2020, point 5.3.3	EN 17353:2020, point 5.3.3 (see Annex E) Minimum amount of retroreflective material as per requirement Table 2	± 0,21 mm	Point 8 of this report	M
TYPE B3 Equipment for the torso or the torso and limbs point 5.3.4	Type B3 Retroreflective Material	EN 17353:2020, point 5.3.4	EN 17353:2020, point 5.3.4 Minimum quantity of retroreflective material as required in Table 3 (see Annex E). The smallest size is measured and flat	NA	NA	NA
TYPE AB point 5.4	Fluorescent material Retroreflective material Combined performance material	EN 17353:2020, point 5.4	EN 17353:2020, point 5.4	NA	NA	NA
Requirements for fluorescent material and combined performance material point 6.1						
Colour performance requirements of new material point 6.1.1	Fluorescent material and combined performance material	EN 17353:2020, point 6.1.1	EN 17353:2020, point 6.1.1 The colour and the luminance factor shall be within the regions given in Table 4	NA	NA	NA
Colour after Xenon test point 6.1.2	Fluorescent material and combined	EN 17353:2020, point 6.1.2	EN 17353:2020, point 6.1.2	NA	NA	NA

TEST	BE APLICATES	STANDARD	REQUIERIMENTS	*UoM.	REPORT Nº	RESULT
	performance material		Chromatic coordinate within the area defined in table 4, according to colour and luminance factor.			
Colour fastness of fluorescent material and all non-fluorescent material layers after test exposure, point 6.1.3						
General point 6.1.3.1	Type A Type B	EN 17353:2020, point 6.1.3.1	EN 17353:2020, point 6.1.3.1 Aplica Tipo A y del Tipo AB.	NA	NA	NA
Colour fatness to rubbing point 6.1.3.2	Fluorescent material and all non-fluorescent material layers	EN ISO 105-X12:2016	EN 17353:2020, point 6.1.3.2 Staining ≥ 4	NA	NA	NA
Colour fastness to perspiration point 6.1.3.3	Fluorescent material and all non-fluorescent layers	EN ISO 105-E04:2013	EN 17353:2020, point 6.1.3.3 Fluorescent material: Staining ≥ 4 Non fluorescent material Staining ≥ 4	NA	NA	NA
Colour fastness when laundered point 6.1.3.4	Fluorescent material and all non-fluorescent layers	Domestic: EN ISO 105-C06:2010 ^b Industry: EN ISO 105 C06:2010 ^b Test number D1S	EN 17353:2020, point 6.1.3.4. Table 5 Staining ≥ 4	NA	NA	NA
Colour fastness dry cleaned point 6.1.3.4	Fluorescent material and all non-fluorescent layers	EN ISO 105-D01:2010	EN 17353:2020, point 6.1.3.4. Table 5 Staining ≥ 4	NA	NA	NA
Colour fastness hypochlorite bleached point 6.1.3.4	Fluorescent material and all non-fluorescent layers	EN 20105-N01:1995	EN 17353:2020, point 6.1.3.4. Table 5	NA	NA	NA
Colour fastness hot pressed point 6.1.3.4	Fluorescent material and all non-fluorescent layers	EN ISO 105-X11:1996 (dry/dry)	EN 17353:2020, point 6.1.3.4. Table 5 Staining ≥ 4	NA	NA	NA
Dimensional change point 6.2	Fluorescent material and all non-fluorescent layers	EN 13688:2013	EN 17353:2020, point 6.2	NA	NA	NA
Photometric and physical performance requirements for the separate performance and combined performance materials, point 6.3						
Retroreflective performance requirements of new material point 6.3.1	Separate performance and combined performances materials	Measurements according to EN 17353:2020, point 7.3	EN 17353:2020, point 6.3.1 Shall comply with the area and retroreflection requirements. B1 = Requirements Table 6 Other = Table 7 or Table 8 Angle of rotation $\geq 75\%$.	NA	NA	NA
Type B1. Free hanging devices, point 6.3.2						
General point 6.3.2.1	Free hanging devices	EN 17353:2020, point 6.3.2	EN 17353:2020, point 6.3.2 Table 6 - Minimum Coefficient of Luminous Intensity RI (mcd lx ⁻¹)	NA	NA	NA
Flexible devices point 6.3.2.2	Free hanging devices	EN 17353:2020, point 6.3.2.2	EN 17353:2020, point 6.3.2.2	NA	NA	NA



TEST	BE APLICATES	STANDARD	REQUIERIMENTS	*UoM.	REPORT Nº	RESULT
Rigid devices point 6.3.2.3	Free hanging devices	EN 17353:2020, point 6.3.2.3	EN 17353:2020, point 6.3.2.3 A rigid device shall be identified as one that cannot be wrapped around a 25 mm mandrel 180°.	NA	NA	NA
Type B2, B3 and AB – Removable or permanently applied materials or devices, point 6.3.3						
Removable or permanently applied materials or devices point 6.3.3	Separate performance materials Type B2, B3 and AB	EN 17353:2020, point 6.3.3	EN 17353:2020, point 6.3.3 For materials retroreflective Table 7 -Minimum Coefficient of Retroreflection R_A for separate performance retroreflective material (cd $1x^{-1} \cdot m^{-2}$)	NA	AR-22-YL- 000995-01	M
Removable or permanently applied materials or devices point 6.3.3	Combined performance materials Type AB	EN 17353:2020, point 6.3.3	EN 17353:2020, point 6.3.3 For materials retroreflective	NA	NA	NA
Retroreflective performance requirements after test exposure, point 6.4						
General point 6.4.1	Type B1	EN 17353:2020, point 6.4.1	EN 17353:2020, point 6.4.1	NA	NA	NA
	Type B2, B3 y AB		EN 17353:2020, point 6.4.1 Table 10 -Test exposure for Type B2, B3 and AB devices	NA	AR-22-YL- 000995-01	M
Separate performance material point 6.4.2	Retroreflective material	EN 17353:2020, point 6.4.2	EN 17353:2020, point 6.4.2 $\geq 100 \text{ cd}/(lx \cdot m^2)$ measured with an angle of observation α $= 12^\circ$ and an input angle $\beta_1 = 5^\circ$ ($\beta_2 = 0^\circ$).	NA	AR-22-YL- 000995-01	M
Combined performance material point 6.4.3	Combined material	EN 17353:2020, point 6.4.3	EN 17353:2020, point 6.4.3 $\geq 30 \text{ cd}/(lx \cdot m^2)$	NA	NA	NA
Orientation sensitive materials point 6.4.4	Retroreflective material/ Combined material	EN 17353:2020, point 6.4.4	EN 17353:2020, point 6.4.4 Requirements points 6.4.2 or 6.4.3, With the orientations specified in 7.3.3	NA	NA	NA
Ageing Point 7.5	Garment	EN 17353:2020, point 7.5	EN 17353:2020, point 7.5	NA	NA	NA
Marking point 8	EN 17353:2020, point 8			NA	NA	M
Information supplied by the manufacturer point 9	EN 17353:2020, point 9			NA	NA	M

10. CONCLUSION

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

The PPE type **REFLECTIVE STRAP** reference **KC8282.- 08** appointed as **Type B2**, 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.

Elche, 25th of July 2022

Signature of the conformity evaluator:

EU Type-examination Certificate

Number:
UE-000071/01



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MID OCEAN BRANDS BV

WELLENSIEKSTRAAT 2
6718 XZ EDE GLD - THE NETHERLANDS

Certificate issued by **Eurofins Textile Testing Spain, S.L. (Unipersonal)** as notified body n° 2865 in accordance with Annex V (Module B) of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment (PPE).

PPE Type REFLECTIVE STRAP

Reference MO9885.-14 & KC8282.-14

Variant(s) KC8282.-14 square pattern

Description / Sizes Silver reflective arm strap foldable with plain or square pattern and black velvet backing. Sizes: KC8282.-14 (30 x 320 mm), MO9885.-14 (30 x 400 mm) and KC8282.- 14 square pattern (30 x 320 mm)

The protective equipment abovementioned complies with the essential health and safety requirements applicable, according to Annex II of Regulation (EU) 2016/425 as **Category II PPE**.

Harmonised standard(s):

- EN ISO 13688:2013
- EN 17353:2020

Performance level(s) obtained:

- **Type B2** - Dark conditions (limbs)

Other technical specifications: EN ISO 13688:2013/A1:2021

For Category III PPE, this EU type-examination certificate must be used in conjunction with one of the conformity assessment procedures base on internal production control plus supervised product checks at random intervals (Module C2) or based on the quality assurance of the production process (Module D), according to Regulation (EU) 2016/425.



Marta Nieto Araujo
Certification director

Date of Issue: 01/12/2021
Expiry date: 01/12/2026
Renovation date: 05/09/2022



Eurofins Textile Testing Spain, S.L.U.
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Form 7195-3 Rev. 3.1

This document is subject to the Certification rules included in the Certification Agreement according to the internal procedure NB-QP7204.
The electronic signature can verify the authenticity of this document.

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

EU TYPE EXAMINATION Nº:

UE-000071/01

APPLICATION DATE:

20/05/2022

DATE OF ISSUE:

05/09/2022

APPLICANT:

MID OCEAN BRANDS BV
WELLENSIEKSTRAAT 2
6718 XZ EDE GLD - THE NETHERLANDS

PPE TYPE:

REFLECTIVE STRAP

REFERENCE (PPE):

MO9885.-14, KC8282.- 14 & KC8282.-14 square pattern

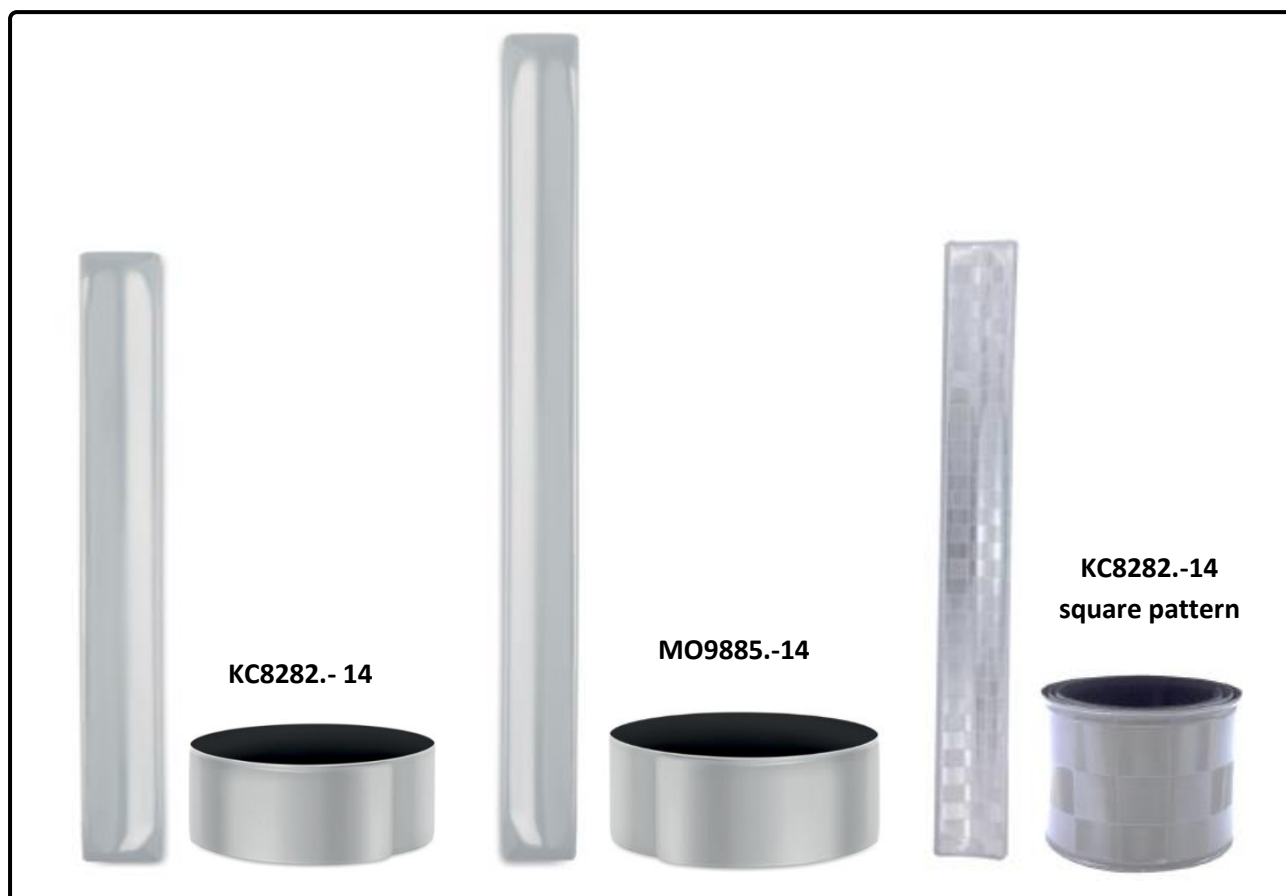
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2. Certification scope
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5. Summary of results
6. Conclusion

ANNEX. - EU Type-Examination Certificate

1. PPE IDENTIFICATION

1.1 Description and photography



1.2 Description of the components

PPE components according to the information supplied by the manufacturer:

Reflective arm strap foldable with black velvet backing

Reflective Polyvinyl chloride (color: Silver) and Carbon Steel

1.3 Sizes

The size chart supplied by the manufacturer:

REFERENCE	SIZE	Width (mm)	Length (mm)
KC8282.- 14	One size	30	320
MO9885.-14	One size	30	400
KC8282.-14 square pattern	One size	30	320

1.4 Samples given for certification

On 20/07/2021 thirty (30) reflective straps arrive at the laboratory, fifteen (15) for each size.
On 09/05/2022 twelve (12) reflective straps arrive at the laboratory.

2. CERTIFICATION SCOPE

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

This International Standard is only intended to be used in combination with other standards containing requirements for specific protective performance and not on stand-alone basis. Protective clothing shall be designed and manufactured as follows.

- **EN 17353:2020** Protective equipment. Visibility clothing for non-professional use. Requirements and test methods.
 - Risk of not being seen in daylight conditions. Type A
 - Risk of not being seen in dark conditions. Type B
 - Risk of not being seen during daylight, twilight and darkness. Type AB

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 ☒
		Not meet ☐
		Not applicable ☐
1.2.1.1 Suitable constituent materials	4.2	Meet ☒
		Not meet ☐
		Not applicable ☐
1.2.1.2 Satisfactory Surface condition of all PPE parts in contact with the user	4.4	Meet ☒
		Not meet ☐
		Not applicable ☐
1.4 Manufacturer's instructions and information	8	Meet ☒
		Not meet ☐
		Not applicable ☐
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	6; 7	Meet ☒
		Not meet ☐
		Not applicable ☐

- **EN 17353:2020** Protective clothing. Enhanced visibility equipment for medium risk situations – Test methods and requirements

Essential Health and Safety Requirements, according to Annex II of Regulation (UE) 2016/425	Clause(s) / sub-clause(s) of the standard EN 17353:2020	Result
1.1.2.2 Classes of protection appropriate to different levels of risk	4.1	Meet ☒
		Not meet ☐
		Not applicable ☐
1.2.1 Absence of inherent risks and other nuisance factors	4.1, 4.2, 5.2, 5.3, 5.4, 6.2	Meet ☒
		Not meet ☐
		Not applicable ☐
1.3.2 Lightness and strenght	6.1.2, 6.1.3, 6.4	Meet ☒
		Not meet ☐
		Not applicable ☐
1.4 Manufacturer's instructions and information	8, 9	Meet ☒
		Not meet ☐
		Not applicable ☐
2.4 PPE subject to ageing	7.5	Meet ☐
		Not meet ☐
		Not applicable ☒
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	8	Meet ☒
		Not meet ☐
		Not applicable ☐
2.13 PPE capable of signaling the user's presence visually	6.1.1, 6.3.1, 6.3.2, 6.3.3	Meet ☒
		Not meet ☐
		Not applicable ☐

5. SUMMARY OF RESULTS

LEGEND RESULTS	
M	Meet
NM	Not meet
NA	Not applicable
NT	Not tested

- **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	NA	NA
Nickel Innocuousness point 4.2	Zipper	EN 1811:2011+A1:201 5	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.	NA	NA	NA
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-21-YL- 008245-01/ AR-22-YL- 005802-01	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-21-YL- 008245-01/ AR-22-YL- 005802-01	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 5 of the report UE- 000071/00	M
Dimensional change due to cleaning after pre- treatment point 5.3	Protective clothing o textile	Washed ISO 5077	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 5.3 ≤ ±3% (woven) or ≤ ±5% (Knitted)	NA	NA	NA
		Dry cleaned ISO 3175-1				
General size designation point 6	Protective clothing	ISO 8559-1:2017, EN ISO 13688:2013 + EN ISO 13688:2013/A1:20 21, point 6 and Annex D	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 6 and Table 1	± 0,21	Point 6 of the report UE- 000071/00	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

- **EN 17353:2020** Protective clothing. Enhanced visibility equipment for medium risk situations – Test methods and requirements

TEST	BE APLICATED	STANDARD	REQUIERIMENTS	*UoM.	REPORT Nº	RESULT
Types point 4.1	Garments	EN 17353:2020, point 4.1	EN 17353:2020, point 4.2 3 types based on the foreseeable type of use	NA	----	Type B2
Minimum area requirements point 4.2	Garment or equipment	EN 17353:2020, point 4.2	EN 17353:2020, point 4.2 Table 2: as required by Type B1 and Type B2; or Table 3: as required by garment Type A, Type B3 and Type AB.	± 0,21	Point 7 of the report UE- 000071/00	M
TYPE A General point 5.2.1	Type A	EN 17353:2020, point 5.2.1	EN 17353:2020, point 5.2.1 (Table 3) Fluorescent material ≥ 0,14	NA	NA	NA
TYPE A Visibility from all sides point 5.2.2	Type A	EN 17353:2020, point 5.2.2	EN 17353:2020, point 5.2.2 (see Annexes C y D) (Table 3)	NA	NA	NA
TYPE B General point 5.3.1	Type B Retroreflective Material	EN 17353:2020, point 5.3.1	EN 17353:2020, point 5.3.1 Minimum quantity of retroreflective material according to Table 2 and Table 3	± 0,21	Point 8 of the report UE- 000071/00	M
TYPE B1 Free handing devices point 5.3.2	Type B1 Retroreflective Material	EN 17353:2020, point 5.3.2	EN 17353:2020, point 5.3.2	NA	NA	NA
TYPE B2 Equipment for limbs point 5.3.3	Type B2 Retroreflective Material	EN 17353:2020, point 5.3.3	EN 17353:2020, point 5.3.3 (see Annex E) Minimum amount of retroreflective material as per requirement Table 2	± 0,21	Point 8 of the report UE- 000071/00	M
TYPE B3 Equipment for the torso or the torso and limbs point 5.3.4	Type B3 Retroreflective Material	EN 17353:2020, point 5.3.4	EN 17353:2020, point 5.3.4 Minimum quantity of retroreflective material as required in Table 3 (see Annex E). The smallest size is measured and flat	NA	NA	NA
TYPE AB point 5.4	Fluorescent material Retroreflective material Combined performance material	EN 17353:2020, point 5.4	EN 17353:2020, point 5.4	NA	NA	NA
Requirements for fluorescent material and combined performance material point 6.1						
Colour performance requirements of new material point 6.1.1	Fluorescent material and combined performance material	EN 17353:2020, point 6.1.1	EN 17353:2020, point 6.1.1 The colour and the luminance factor shall be within the regions given in Table 4	NA	NA	NA
Colour after Xenon test point 6.1.2	Fluorescent material and combined performance material	EN 17353:2020, point 6.1.2	EN 17353:2020, point 6.1.2 Chromatic coordinate within the area defined in table 4, according to color and luminance factor.	NA	NA	NA

TEST	BE APLICATED	STANDARD	REQUIERIMENTS	*UoM.	REPORT Nº	RESULT
Colour fastness of fluorescent material and all non-fluorescent material layers after test exposure, point 6.1.3						
General point 6.1.3.1	Type A Type B	EN 17353:2020, point 6.1.3.1	EN 17353:2020, point 6.1.3.1 Apply Tipe A and del Tipe AB.	NA	NA	NA
Colour fatness to rubbing point 6.1.3.2	Fluorescent material and all non-fluorescent material layers	EN ISO 105-X12:2016	EN 17353:2020, point 6.1.3.2 Staining ≥ 4	NA	NA	NA
Colour fastness to perspiration point 6.1.3.3	Fluorescent material and all non-fluorescent layers	EN ISO 105-E04:2013	EN 17353:2020, point 6.1.3.3 Fluorescent material: Color change ≥ 4 Non fluorescent material Staining ≥ 4	NA	NA	NA
Colour fastness when laundered point 6.1.3.4	Fluorescent material and all non-fluorescent layers	Domestic: EN ISO 105-C06:2010 ^b Industry: EN ISO 105-C06:2010 ^b Test number D1S	EN 17353:2020, point 6.1.3.4. Table 5 Fluorescent material: Color change 4-5 Non fluorescent material Staining 4	NA	NA	NA
Colour fastness dry cleaned point 6.1.3.4	Fluorescent material and all non-fluorescent layers	EN ISO 105-D01:2010	EN 17353:2020, point 6.1.3.4. Table 5 Fluorescent material: Color change 4 Non fluorescent material Staining 4	NA	NA	NA
Colour fastness hypochlorite bleached point 6.1.3.4	Fluorescent material and all non-fluorescent layers	EN 20105-N01:1995	EN 17353:2020, point 6.1.3.4. Table 5 Fluorescent material: Color change 4	NA	NA	NA
Colour fastness hot pressed point 6.1.3.4	Fluorescent material and all non-fluorescent layers	EN ISO 105-X11:1996 (dry/dry)	EN 17353:2020, point 6.1.3.4. Table 5 Fluorescent material: Color change 4-5 Non fluorescent material Staining 4	NA	NA	NA
Dimensional change point 6.2	Fluorescent material and all non-fluorescent layers	EN 13688:2013	EN 17353:2020, point 6.2	NA	NA	NA
Photometric and physical performance requirements for the separate performance and combined performance materials, point 6.3						
Retroreflective performance requirements of new material point 6.3.1	Separate performance and combined performances materials	Measurements according to EN 17353:2020, point 7.3	EN 17353:2020, point 6.3.1	NA	NA	NA
Type B1. Free hanging devices, point 6.3.2						
General point 6.3.2.1	Free hanging devices	EN 17353:2020, point 6.3.2	EN 17353:2020, point 6.3.2 They shall be measured on both sides and both sides must comply with Table 6 - Minimum Coefficient of Luminous Intensity RI (mcd lx ⁻¹)	NA	NA	NA
Flexible devices point 6.3.2.2	Free hanging devices	EN 17353:2020, point 6.3.2.2	EN 17353:2020, point 6.3.2.2	NA	NA	NA
Rigid devices point 6.3.2.3	Free hanging devices	EN 17353:2020, point 6.3.2.3	EN 17353:2020, point 6.3.2.3 A rigid device shall be identified as one that cannot be wrapped around a 25 mm mandrel 180°.	NA	NA	NA

TEST	BE APLICATED	STANDARD	REQUIERIMENTS	*UoM.	REPORT Nº	RESULT
Type B2, B3 and AB – Removable or permanently applied materials or devices, point 6.3.3						
Removable or permanently applied materials or devices point 6.3.3	Separate performance materials Type B2, B3 and AB	EN 17353:2020, point 6.3.3	EN 17353:2020, point 6.3.3 For materials retroreflective Table 7 -Minimum Coefficient of Retroreflection R_A for separate performance retroreflective material ($\text{cd } 1\text{x}^{-1} \cdot \text{m}^{-2}$)	NA	AR-21-YL-010130-02/ AR-22-YL-008066-01	M
Removable or permanently applied materials or devices point 6.3.3	Combined performance materials Type AB	EN 17353:2020, point 6.3.3	EN 17353:2020, point 6.3.3 For materials retroreflective	NA	NA	NA
Retroreflective performance requirements after test exposure, point 6.4						
General point 6.4.1	Type B1	EN 17353:2020, point 6.4.1	EN 17353:2020, point 6.4.1	NA	NA	NA
	Type B2, B3 y AB		EN 17353:2020, point 6.4.1 Shall be fulfil the photometric requirements of 6.4.2, 6.4.3 o 6.4.4 Table 10 -Test exposure for Type B2, B3 and AB devices	NA	AR-21-YL-010130-02/ AR-22-YL-008066-01	M
Separate performance material point 6.4.2	Retroreflective material	EN 17353:2020, point 6.4.2	EN 17353:2020, point 6.4.2 $\geq 100 \text{ cd/ (lx} \cdot \text{m}^2)$ measured with an angle of observation $\alpha = 12^\circ$ and an input angle $\beta_1 = 5^\circ (\beta_2 = 0^\circ)$.	NA	AR-21-YL-010130-02/ AR-22-YL-008066-01	M
Combined performance material point 6.4.3	Combined material	EN 17353:2020, point 6.4.3	EN 17353:2020, point 6.4.3 $\geq 30 \text{ cd/(lx} \cdot \text{m}^2)$	NA	NA	NA
Orientation sensitive materials point 6.4.4	Retroreflective material/ Combined material	EN 17353:2020, point 6.4.4	EN 17353:2020, point 6.4.4 Requirements points 6.4.2 or 6.4.3, With the orientations specified in 7.3.3	NA	NA	NA
Ageing Point 7.5	Garment	EN 17353:2020, point 7.5	EN 17353:2020, point 7.5	NA	NA	NA
Marking point 8	EN 17353:2020, point 8			NA	NA	M
Information supplied by the manufacturer point 9	EN 17353:2020, point 9			NA	NA	M

6. CONCLUSION

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

The PPE type **REFLECTIVE STRAP** reference **MO9885.-14, KC8282.-14 & KC8282.-14 square pattern**, appointed as Type **B2**, 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.

Elche, 5th of September 2022

Signature of the conformity evaluator:

