EU TYPE EXAMINATION CERTIFICATE

PRD N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

NOTIFIED BODY 2575

The PPE detailed herein meets the criteria of an EU Type Examination in accordance with Annex V, including the applicable clauses of the Essential Health and Safety Requirements of the PPE Regulation EU 2016/425.

Following an EU Declaration of Product Conformity you are hereby licensed to mark the product(s) detailed in accordance with Article 17 of the PPE Regulation EU 2016/425.

VALIDITY OF CERTIFICATE

This certificate will cease its validity at any time if needed, in particular if changes in the manufacturing process, in the raw materials or in PPE components will occur.

INTERTEK ITALIA SpA
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intertek.italia.notified.body@pec.it

Manufacturer: Mid Ocean Brands B.V.
Address: PO BOX 644, 6710 BP, Ede, The Netherlands
Authorised Representative: -
Address: -
Certificate No.: ITASLNB24024481
Category Product: II **Brand Name:** -
Model: -
Article(s) code: YC2405-03, YC2405-04, YC2405-05, YC2405-68, MO2405-03, MO2405-04, MO2405-05, MO2405-68
Product type: High Visibility Clothing
Reference(s) Standard: EN ISO 13688:2013+A1:2021; EN 17353:2020
Description:
Enhanced visibility safety vest / belt in accordance with minimum areas of retroreflective tape: tape bands adjoining one another in a vest / belt configuration. Sizes: >140cm; Classification: Type B3.

This has been shown through satisfactory testing to: EN ISO 13688:2013+A1:2021; EN 17353:2020

Examination of the Technical File Documentation, No:	High visibility safety vest YC2405-03, YC2405-04, YC2405-05, YC2405-68, MO2405-03, MO2405-04, MO2405-05, MO2405-68 - Rev.3 10/01/2025
Test Report no.	See Technical File

Remark:

Note:

Issued at: Lastra a Signa (FI) **Issue Date** 23/01/2025
General Manager **Elena Ruffino** **Expiry Date** 22/01/2030

For and on behalf of INTERTEK ITALIA Spa

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国际互认
检测
TESTING
CNAS L0220

TEST REPORT

Number: GZHT91286346

Applicant: MID OCEAN BRANDS B.V.
7/F, KINGS TOWER, 111 KING LAM STREET,
CHEUNG SHA WAN, KOWLOON, HONG KONG
Attn: DEREK HUI

Date: Sep 14, 2024

Sample Description:

Eight (8) groups of submitted samples said to be:
(A) One (1) piece of High visibility safety vests in Neon Green/Silvery
(B) One (1) piece of High visibility safety vests in Blue/Silvery
(C) One (1) piece of High visibility safety vests in Red/Silvery
(D) One (1) piece of High visibility safety vests in Black/Silvery
(E) One (1) roll of Neon Green elastic polyester with Silver Retro-reflective Printing
(F) One (1) roll of Blue elastic polyester with Silver Retro-reflective Printing
(G) One (1) roll of Red elastic polyester with Silver Retro-reflective Printing
(H) One (1) roll of Black elastic polyester with Silver Retro-reflective Printing

Standard	:	EN 17353:2020 ISO 13688:2013/Amd.1:2021
Colour	:	Neon green /Silvery, Blue/Silvery, Red/Silvery, Black/Silvery
Manufacturer	:	116209
Style No./Name	:	YC2405, MO2405
Ref.	:	High visibility safety vests
Country Of Origin	:	China
Goods Exported To	:	Europe
Previous Report No.	:	GZHT91273458(S1)
Date Received/Date Test Started	:	Sep. 12, 2024
Date Final Information Confirmed:		--

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch

Guiliang Dong
Senior Lab Manager

HT / kayyu

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1 Types And Minimum Area Requirements (EN 17353:2020, 4)

4.1 Types

Sample	(A)		
Size	One Size		
Requirements	**Yes**	**No**	**N/A**
The Enhanced Visibility Equipment Is Grouped Into Three Types Based On The Foreseeable Conditions Of Use:			
- **Type A** Equipment Worn By Users Where The Risk Of Not Being Seen Exists Only At Daylight Conditions. This Equipment Uses Only The Fluorescent Material As Enhanced Visibility Component.			√
- **Type B** Equipment Worn By Users Where Risk Of Not Being Seen Exists Only At Dark Conditions. This Equipment Uses Only The Retroreflective Material As Enhanced Visibility Component.	√		
Type B Is Subdivided In 3 Levels, As Below. The Classification Depends On The Total Area Worn Or On Placement Of The Device On User's Torso And Limbs:			
- Type B1 Includes Free Hanging Retroreflective Devices Only; These Devices Are Designed For Movement Recognition.			√
- Type B2 Includes Retroreflective Devices Or Retroreflective Material Either Temporarily Or Permanently Placed On Limbs Only; These Products Are Designed For Movement Recognition. As A Minimum, The Retroreflective Material Shall Be Positioned On The Limbs As A Separate Removable Device Or Shall Be Incorporated Into Clothing Design On A Permanent Basis As A Retroreflective Element.			√
- Type B3 Includes Retroreflective Material Placed On Torso Or Torso And Limbs. These Products Are Designed For Form Recognition, Or Form And Movement Recognition. Type B3 Items Shall Not Be A Combination Of Permanently Attached Reflective Material And Removable Reflective Devices.	√		
- **Type AB** Equipment Worn By Users Where Risk Of Not Being Seen Exists During Daylight, Twilight And Dark Conditions. This Equipment Uses The Fluorescent As Well As The Retroreflective And/or Combined Performance Materials As Enhanced Visibility Components.			√
For Each Type, The Relevant Material Requirements In Clause 6 Shall Be Fulfilled In Accordance To Clause 7.	√		

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Tests Conducted (As Requested By The Applicant)

Types And Minimum Area Requirements (EN 17353:2020, 4) (Cont)

4.2 Minimum Area Requirements

(A)

Areas Of Material For Types A, B3 And AB					
Height H Of The User	h > 140 cm[a]				
Type	Fluorescent Material	Retroreflective Material	Combined Performance Material	Requirement	Pass/Fail
B3	-	0.080 m^2	-	*2	Pass

Remark: *2= Table 3 - Minimum Required Areas Of Material In m^2 For Types A, B3 And AB

	A	B3	AB
Height H Of The User	h > 140 cm[a]		
Fluorescent Material	0.24	-	0.24
Retroreflective Material	-	0.08	0.08
Combined Performance Material	-	-	0.24

[a] If The Height Range (Interval Figures As Described In EN ISO 13688:2013) Includes 140 cm (E.G. Garment Designed For Height Range From 138 cm To 142 cm), Then The Requirements As Stated In The Column " H > 140" Apply.

NOTE: The Area Of Visibility Material Shown In Table 3 Cannot Be Reduced Below The Minimum Requirements By The Application Of Logos, Lettering, Labels, Etc.

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2 Design Requirements (EN 17353:2020, 5)

Sample	(A)				
Size	One Size				
Requirements		**Test Data**	**Yes**	**No**	**N/A**
5.1 Size Designation					
The Size Designation For Garments Shall Be In Accordance With The Requirements Of EN ISO 13688:2013.		-	√		
5.2 Type A					
5.2.1 General					
Type A Garments (Including Partial Body Protective Clothing) Shall In Their Design Use At Least The Minimum Amount Of Fluorescent Material According To Table 3.		-			√
5.2.2 Visibility From All Sides					
Type A Garments Shall Be Made Up Of Fluorescent Material On All Sides To Ensure 360° Visibility (Visibility From All Sides). For Upper Body Garments Fluorescent Material Shall Be Evenly Distributed Around The Torso And/Or Upper Arms And/Or Limbs, If Any.		-			√
For Lower Body Garments, Fluorescent Material Shall Be Evenly Distributed Around The Legs.		-			√
Visibility From All Sides Shall Be Reached As Follows:					
- Not Less Than 40 % Of The Minimum Required Amount Of Fluorescent Material Specified In Table 3 Is Present On Both The Front And The Back When Laid Flat, And		-			√
- Not Less Than 10 % Of The Minimum Required Amount Of Fluorescent Material Specified In Table 3 Is Present On Both The Right And Left Sides When Laid Flat On The Back (Respectively On The Front).		-			√
5.3 Type B					
5.3.1 General					
These Garments Or Devices Shall In Their Design Use At Least The Minimum Amount Of Retroreflective Material According To Table 2 Or Table 3.		0.080 m^2	√		

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Design Requirements (EN 17353:2020, 5) (Cont)

Requirements	Test Data	Yes	No	N/A
5.3.2 Type B1 – Free Hanging Devices				
The Devices Shall Be Removable.	-			√
The Total Area Of The Devices In Use Shall Meet The Requirements In Table 2.	-			√
A Type B1 Device Shall Be Retroreflective From Both Sides.	-			√
Its Optical Active Area Shall Be A Minimum 15 cm^2 Per Side. The Total Area Shall Be Maximum 50 cm^2 Per Side. In Order To Achieve 360° Visibility (Visibility From All Sides) At Least Two Devices Shall Be Used, These Shall Be Used On The Left And The Right Side Of The Torso. This Shall Be Specified In The User Information.	-			√
The Device Shall Be Flat And Its Maximum Thickness Shall Be 10 mm.	-			√
The Means Of Attachment (String, Ribbon, Cord, Spiral, Etc.) Shall Be A Minimum 10 cm, In Length Between The Points Of Attachment On The Garment And That On The Reflector To Enable Free Movement Of The Device Around Its Vertical Axis And Allow A Pendulum Effect.	-			√
5.3.3 Type B2 – Equipment For Limbs				
The Minimum Area Of Retroreflective Material Shall Fulfil The Requirements In Table 2.	-			√
To Ensure 360° Visibility (Visibility From All Sides), One Or More Devices Shall Be Applied To Each Upper And/Or Each Lower Limb.	-			√
When Retroreflective Material Is Applied To A Garment It Shall Also Be Positioned To Achieve 360° Visibility (Visibility From All Sides). The Material Shall Be Placed On The Limbs So As To Ensure A Minimum Width Of 20 mm Encircling Each Limb.	-			√
Any Gap In The Lengthwise Continuity Of The Retroreflective Material Shall Not Be Greater Than 50 mm, Measured Parallel To The Direction Of The Material, And The Total Of Such Gaps Shall Not Be Greater Than 50 mm Around The Limbs. Any Offset Not Greater Than The Width Of The Material Plus 5 mm Is Allowed.	-			√
Additionally, Separate Retroreflective Elements May Form Part Of An Applied Design In Conjunction With The Above. The Retroreflective Elements Shall Have A Minimum Area Of 25 cm^2 Each.	-			√
In The Case Of B2 Garments Covering Upper And Lower Limbs, The Retroreflective Material Can Be Applied On The Upper Limbs Only, On The Lower Limbs Only Or On Both The Upper And Lower Limbs. In The Latter Case, The Minimum Amount Of Table 2 Shall Be Used For Upper Limbs And Also For The Lower Limbs.	-			√

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Design Requirements (EN 17353:2020, 5) (Cont)

Requirements	Test Data	Yes	No	N/A
5.3.4 Type B3 – Equipment For The Torso Or The Torso And Limbs				
The Minimum Area Of Retroreflective Material Shall Fulfil The Requirements In Table 3. Garments And Devices Shall Be Measured Flat And In Their Smallest Configuration.	0.080 m^2	√		
Retroreflective Material Shall Be Placed On The Torso So As To Ensure A Minimum Width Of 20 mm Encircling The Torso. Alternatively, Retroreflective Materials May Be Placed To Encircle The Upper Arms.	40 mm	√		
If A B3 Garment Covers Limbs Below The Elbows Or Knees, Then Retroreflective Material On The Limbs Is Required. In This Case, Type B2 Requirements (See 5.3.3) For The Limbs Shall Be Fulfilled Whilst The Remainder Of The Material Shall Be Placed On The Torso. It Is Not Necessary For A Minimum 20 mm Wide Band To Be Applied On The Limbs In This Case.	-			√
Additionally, Separate Retroreflective Elements May Form Part Of An Applied Design In Conjunction With The Above. The Retroreflective Elements Shall Have A Minimum Area Of 25 cm^2 Each.	-			√
Visibility From All Sides Shall Be Reached As Follows:				
- Not Less Than 40 % Of The Minimum Required Amount Of Retroreflective Material Specified In Table 3 Is Present On Both The Front And The Back When Laid Flat, And	> 40%	√		
- Not Less Than 10 % Of The Minimum Required Amount Of Retroreflective Material Specified In Table 3 Is Present On Both The Right And Left Sides When Laid Flat On The Back (Respectively On The Front).	> 10%	√		
Any Gap In The Lengthwise Continuity Of The Retroreflective Material Shall Not Be Greater Than 50 mm, Measured Parallel To The Direction Of The Material, And The Total Of Such Gaps Shall Not Be Greater Than 100 mm Around The Torso. Any Offset Not Greater Than The Width Of The Material Plus 5 mm Is Allowed.	Max. Gap: 45 mm Total Gap: 47.8 mm	√		
In The Case Of B3 Garments Covering The Torso, And The Upper And Lower Limbs, The Retroreflective Material Can Be Applied On The Torso And The Upper Limbs Only, On The Torso And Lower Limbs Only Or On Both The Torso And The Upper And Lower Limbs. In The Latter Case, The Minimum Amount Of Table 2 Shall Be Used For Upper Limbs And Also For The Lower Limbs.	-			√

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Design Requirements (EN 17353:2020, 5) (Cont)

Requirements	Test Data	Yes	No	N/A
5.4 Type AB				
These Garments Shall In Their Design Use The Minimum Amount Of Fluorescent Material And Retroreflective Material Or Combined Performance Material Of Appropriate Group According To Table 3. Design Requirements For Type AB Clothing Shall Follow The Same Rules In Terms Of Distribution Of Fluorescent Material As Applied To Type A In 5.2.	-			√
Design Requirements For Type AB Clothing Shall Follow The Same Rules In Terms Of Distribution Of Reflective Material As Applied To Type B2 As In 5.3.3 Or Type B3 In 5.3.4.	-			√
Combined Performance Material Shall Be Used Only In A Form That Maintains A Width Of ⩾ 20 mm.	-			√
When Using Combined Performance Material, The Area Of Fluorescent Material Can Be Reduced By The Amount Of Combined Performance Material Used.	-			√

Remark:

Table 2 - Minimum Required Areas Of Material In m^2 For Types B1 And B2

	B1[a]	B2[b]
Retroreflective Material	0.003	0.018

[a] Total Area Of Both Sides Of A Single Device.
[b] If Devices, The Total Area Of Two Devices, Measured Flat.

Table 3 - Minimum Required Areas Of Material In m^2 For Types A, B3 And AB

	A	B3	AB	A	B3	AB
Height H Of The User	h ⩽ 140 cm[a]			h > 140 cm[a]		
Fluorescent Material	0.14	-	0.14	0.24	-	0.24
Retroreflective Material	-	0.06	0.06	-	0.08	0.08
Combined Performance Material	-	-	0.14	-	-	0.24

[a] If The Height Range (Interval Figures As Described In EN ISO 13688:2013) Includes 140 cm (E.G. Garment Designed For Height Range From 138 cm To 142 cm), Then The Requirements As Stated In The Column " H > 140" Apply.

Compliance: The Submitted Sample **MEETS** The Design Requirements Of Type B3 Of EN 17353:2020, Clause 5.

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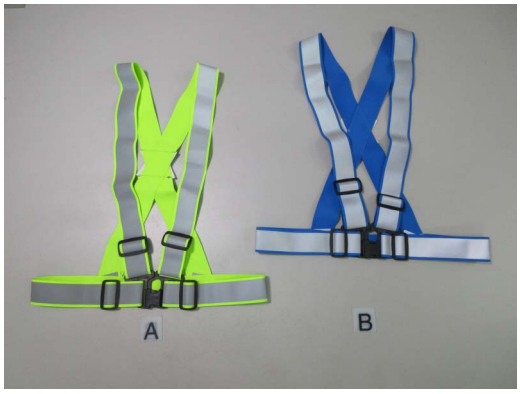







End Of Report

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Remark:
1. As Requested by the Applicant, For Details Refer to Attached Page (S).
2. All the tested item are tested under the standard condition.
3. The report is valid with commission test only for the test samples in the case of delivering samples by clients.

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