



TEST REPORT

N. **4113123.01/E**

date: 21/10/2022

CLIENT: **BOARDS & MORE GmbH (Division ION)**
Rabach 1
4591 Molln
Austria

AC + CSO

FOR THE ATTENTION OF: Anna Thoma

DC 15609

SAMPLING: done by the Applicant

SAMPLES RECEIVED: 22/08/2022

TEST PERIOD: 01-08/09/2022

SAMPLES: Body protectors for bike/downhill use, in the following articles:
- "**Protection Wear Shirt LS AMP unisex**" (**47230-5913**), sizes XS, S, M, L, XL, XXL.
- "**Protection Wear Shirt SS AMP unisex**" (**47230-5940**), sizes XS, S, M, L, XL, XXL.
- "**Protection Wear Vest AMP unisex**" (**47230-5914**), sizes XS, S, M, L, XL, XXL.

See the complete description of the articles on the next page.

REQUEST: Laboratory tests in accordance with me-int 097, EN 1621-1:2012, EN 1621-2:2014 and EN 1621-3:2018 for the aim of the Certification (Regulation (EU) 2016/425).

NOTE:

- Back protector art. "SCL-M/L-13", "SCL-L-13", "SCL-XL-13" - EU no. 289142705/OE;
- Chest protector art. "SC-1/CP8" - EU no. 289220601/OE;
- Shoulder protector article "SC-1/KCAir" - EU no. 289221501/OE;
- Elbow protector article "SC-1/ECAir" - EU no. 289221502/OE.

This document cancels and replaces the previous Test Report n. 4113123 dated 08/09/2022.

Corrections: on page 1.

Edits: in italics.

Reason: Typing mistake

OUTCOME: **PASS**

Notes:

All results refer exclusively to the tested materials.

Partial reproduction or publication not admitted without written authorization by RCT.

Positive results of a test report do not imply that the tested product is "certified" or "approved" by RCT.

Comments and interpretations are of subjective nature and not part of the Test Report.

Test carried out by qualified partner lab ISO 17025.

* Test not accredited by Accredia

Conformity assessment criterion: the result is considered compliant until the value falls within or coincides with the specification limit.

Unless otherwise indicated, the test conditions correspond to the reference standard.

M22 rev06 del 01/01/2022



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DESCRIPTION:

article: "**Protection Wear Shirt LS AMP unisex**" (**47230-5913**), sizes XS, S, M, L, XL, XXL.

design: vest, with long sleeves;

external coating:

- black stretch knitting (415 REVOLUTIONAL ECO) **(1)**;
- black stretch mesh (GREEN ISLAND) **(2)**;
- black stretch fabric with or without silicon (PN21 with or without silicon) **(3)**;

internal coating (in contact with the body):

- black stretch knitting (REVOLUTIONAL MILD) **(1)**;
- black stretch mesh (GREEN ISLAND) **(2)**;
- black stretch fabric with or without silicon (PN21 with or without silicon) **(3)**;
- black three-dimensional (SOFT 350 TINTO BLACK) **(4)**;
- black stretch binding (TBD) **(5)**;
- black webbing **(6)**;

fastening system:

- by means of a plastic zipper with metallic slider.

This PPE contain the following protections:

- Shoulder protector: art. "SC-1/KCAair" for all sizes;
- Elbow protector: art. "SC-1/ECAair" for all sizes;
- Chest protector: art. "SC-1/CP8" for all sizes;
- Back protector: size XS art. "SCL-M/L-13" with WS 36-41cm;
sizes S-M art. "SCL-L-13" with WS 41-45cm;
sizes L-XL-XXL art. "SCL-XL-13" with WS 45-50cm.

article: "**Protection Wear Shirt SS AMP unisex**" (**47230-5940**), sizes XS, S, M, L, XL, XXL.

This article differs from the model described above in design only:

design: vest, a jacket with short sleeves.

This PPE contain the following protections:

- Shoulder protector: art. "SC-1/KCAair" for all sizes;
- Chest protector: art. "SC-1/CP8" for all sizes;
- Back protector: size XS art. "SCL-M/L-13" with WS 36-41cm;
sizes S-M art. "SCL-L-13" with WS 41-45cm;
sizes L-XL-XXL art. "SCL-XL-13" with WS 45-50cm.

article: "**Protection Wear Vest AMP unisex**" (**47230-5914**), sizes XS, S, M, L, XL, XXL.

This article differs from the model described above in design only:

design: vest, a jacket without sleeves.

This PPE contain the following protections:

- Chest protector: art. "SC-1/CP8" for all sizes;
- Back protector: size XS art. "SCL-M/L-13" with WS 36-41cm;
sizes S-M art. "SCL-L-13" with WS 41-45cm;
sizes L-XL-XXL art. "SCL-XL-13" with WS 45-50cm.



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References	Tests	Measuring unit	Requirements	Results		
Internal method Ricotest me-int 097-08*	Body armor - Assembly of protectors of the trunk and upper arms					
"Protection Wear Shirt LS AMP unisex" (47230-5913)						
-	Sizing - commercial size - back: WS range - shoulder protectors - elbow protectors - chest protection	- cm - - -	- - Type A/Type B Type A/Type B Type A/Type B for EN 1621-3 or chest girth min-max for EN 14021	XS 36-41 Type A Type A Type B	S-M 41-45 Type A Type A Type B	L-XL-XXL 45-50 Type A Type A Type B
-	Back protector		Accordant with EN 1621-2	Pass		
-	Shoulder protectors		Accordant with EN 1621-1	Pass		
-	Elbow protectors		Accordant with EN 1621-1	Pass		
-	Chest protection		Accordant with EN 14021 or EN 1621-3 or not declared as a protector, only used for aesthetic purposes	Pass In accordance with EN 1621-3		



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References	Tests	Measuring unit	Requirements	Results		
“Protection Wear Shirt SS AMP unisex” (47230-5917)						
-	Sizing - commercial size - back: WS range - shoulder protectors - elbow protectors - chest protection	- cm - - -	- - Type A/Type B Type A/Type B Type A/Type B for EN 1621-3 or chest girth min-max for EN 14021	XS 36-41 Type A - Type B	S-M 41-45 Type A - Type B	L-XL-XXL 45-50 Type A - Type B
-	Back protector		Accordant with EN 1621-2	Pass		
-	Shoulder protectors		Accordant with EN 1621-1	Pass		
-	Chest protection		Accordant with EN 14021 or EN 1621-3 or not declared as a protector, only used for aesthetic purposes	Pass In accordance with EN 1621-3		
“Protection Wear Vest AMP unisex” (47230-5914)						
-	Sizing - commercial size - back: WS range - shoulder protectors - elbow protectors - chest protection	- cm - - -	- - Type A/Type B Type A/Type B Type A/Type B for EN 1621-3 or chest girth min-max for EN 14021	XS 36-41 - - Type B	S-M 41-45 - - Type B	L-XL-XXL 45-50 - - Type B
-	Back protector		Accordant with EN 1621-2	Pass		
-	Chest protection		Accordant with EN 14021 or EN 1621-3 or not declared as a protector, only used for aesthetic purposes	Pass In accordance with EN 1621-3		



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References	Tests	Measuring unit	Requirements	Results														
EN 13688:2013 +A1:2021 4.4 4.4.1 – 4.4.2 Annex C*	Comfort		pass	Pass														
Analogue method EN 13595-1:2002 6 (annex A) Prospect A.1*	Fit and ergonomics		yes	Pass														
Analogue method EN 14021:2003 4.5 (6.4)*	Tear strength of the fastening systems	-	All rigid attachments and straps, as well as fasteners and adjusters, shall be able to withstand a pulling force of 120 N without failure	Pass														
EN 13688:2013 +A1:2021 4.2*	Innocuousness		Materials shall not adversely affect the health or hygiene of the user, they shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful.	Pass														
4.2/c ISO 3071: 2020	pH - other materials extracting solution: KCl	<table><tr><th>Material</th><th>Reference: TR (material)</th></tr><tr><td>1</td><td>4113122/E (1)</td></tr><tr><td>2</td><td>4113122/E (2)</td></tr><tr><td>3</td><td>4113122/E (3)</td></tr><tr><td>4</td><td>4113122/E (4)</td></tr><tr><td>5</td><td>4113122/E (5)</td></tr><tr><td>6</td><td>4113122/E (6)</td></tr></table>			Material	Reference: TR (material)	1	4113122/E (1)	2	4113122/E (2)	3	4113122/E (3)	4	4113122/E (4)	5	4113122/E (5)	6	4113122/E (6)
Material	Reference: TR (material)																	
1	4113122/E (1)																	
2	4113122/E (2)																	
3	4113122/E (3)																	
4	4113122/E (4)																	
5	4113122/E (5)																	
6	4113122/E (6)																	
4.2 d ISO 14362-1:2017# textile	Azo colorants content	<table><tr><th>Material</th><th>Reference: TR (material)</th></tr><tr><td>1</td><td>4113122/E (1)</td></tr><tr><td>2</td><td>4113122/E (2)</td></tr><tr><td>3</td><td>4113122/E (3)</td></tr><tr><td>4</td><td>4113122/E (4)</td></tr><tr><td>5</td><td>4113122/E (5)</td></tr><tr><td>6</td><td>4113122/E (6)</td></tr></table>			Material	Reference: TR (material)	1	4113122/E (1)	2	4113122/E (2)	3	4113122/E (3)	4	4113122/E (4)	5	4113122/E (5)	6	4113122/E (6)
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EN 1621-1 :2012 5.2.2 (6.2) (EN ISO 11642:2012 o EN ISO 105-E01: 2013)*	Colour fastness to water		<table><tr><th>Material</th><th>Reference: TR (material)</th></tr><tr><td>1</td><td>4113122/E (1)</td></tr><tr><td>2</td><td>4113122/E (2)</td></tr><tr><td>3</td><td>4113122/E (3)</td></tr><tr><td>4</td><td>4113122/E (4)</td></tr><tr><td>5</td><td>4113122/E (5)</td></tr><tr><td>6</td><td>4113122/E (6)</td></tr></table>	Material	Reference: TR (material)	1	4113122/E (1)	2	4113122/E (2)	3	4113122/E (3)	4	4113122/E (4)	5	4113122/E (5)	6	4113122/E (6)	
Material	Reference: TR (material)																	
1	4113122/E (1)																	
2	4113122/E (2)																	
3	4113122/E (3)																	
4	4113122/E (4)																	
5	4113122/E (5)																	
6	4113122/E (6)																	
EN 1621-1:2012	Motorcyclists' limb joint impact protectors																	
				SHOULDER														
4 (5.3 – 6.3.1.5)*	Type of protector - declared dimension: - tested/confirmed dimension:	-	S, E, H, K, L, K+L Type A/B (table 1)	S "Type A" S "Type A"														
-	Overall protective level	-	1/2	1														
				ELBOW														
4 (5.3 – 6.3.1.5)*	Type of protector - declared dimension: - tested/confirmed dimension:	-	S, E, H, K, L, K+L Type A/B (table 1)	E "Type A" E "Type A"														
-	Overall protective level	-	1/2	1														
5.2 5.2.1	Innocuousness																	
EN ISO 13688:2013+ A1:20214.2*	Innocuousness		Materials shall not adversely affect the health or hygiene of the user, they shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful.	Pass														



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EN 1621-2:2014	Motorcyclists' back protectors			
4.1*	General	-	Protectors shall be safe for use, comfortable to wear and fit for their purpose	Pass
4.2 (EN 1621-1:2012)*	Innocuousness			
EN ISO 13688:2013 +A1:2021 4.2*	Innocuousness		Materials shall not adversely affect the health or hygiene of the user, they shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful.	Pass
4.3 (Table 1)*	Type of protector	-	Full, central or lower back protector (FB, CB, LB)	FB
-	Overall protective level	-	1/2	1
4.5 (5.2.2)	Ergonomic features (not applicable for protectors to be inserted/incorporated into garments): - Male tester with WS:	cm	-	Sizes: XS S-M L-XL-XXL 41 45 50
4.6*	Sizing Waist-to-shoulder length (W-S) (range min-max) Declared: Verified:	cm cm	- -	36-41 41-45 45-50 36-41 41-45 45-50



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References	Tests	Measuring unit	Requirements	Results
EN 1621-3:2018	Motorcyclists' chest protectors			
4.1*	General	-	Motorcyclists' chest protectors shall meet an overall requirement that they are safe to use, comfortable to wear and fit for their purpose. Chest protectors shall be provided with means of restraint and/or adjustments capable to ensure that the protector is maintained in position during use	Pass
4.2 (EN 1621-1:2012)*	Innocuousness			
EN ISO 13688:2013 +A1:2021 4.2*	Innocuousness		Materials shall not adversely affect the health or hygiene of the user, they shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful.	Pass
4.3	Minimum dimensions of zones of protection			
4.3.1 Table 1*	General - Type of protector: - Declared dimension: - Checked/verified dimension:	-	full/divided type A/B type A/B	Full B B
4.3.2	Levels of protection: - Level declared: - Level verified:	- -	1/2 1/2	1 1



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References	Tests	Measuring unit	Requirements	Results				
	Innocuousness, additional chemical tests							
ISO/TS 16190:2021#	Polycyclic aromatic hydrocarbons (PAH's)	<table><tr><td>Material</td><td>Reference: TR (material)</td></tr><tr><td>3</td><td>4113122/E (3)</td></tr></table>			Material	Reference: TR (material)	3	4113122/E (3)
Material	Reference: TR (material)							
3	4113122/E (3)							
EN ISO 14389:2014#	Phthalates	<table><tr><td>Material</td><td>Reference: TR (group)</td></tr><tr><td>3</td><td>4113122/E (c)</td></tr></table>			Material	Reference: TR (group)	3	4113122/E (c)
Material	Reference: TR (group)							
3	4113122/E (c)							

- End of the Test Report -