OMEGA

Accreditation #87526

TEST REPORT
EN – 17092:2020

Report	**Code:**	**ANCCP_Liam and Joey cargo shirt and trouser_251002_rev1**		
	Emission date:	21/10/2025		
Client	Name:	Giuseppe Gazzerro		
	Address:	(Via dello Struggino, 6, Livorno, Toscana 57121)		
Sample	PPE model:	**Liam and Joey cargo shirt and trouser**		
	Origin:	ANCCP		
	Arrival date:	02nd October 2025	Testing date:	02nd October 2025 21st October 2025
Test Site	OMEGA ITALY			

Garment Classes to "*Protective clothing for motorcycle riders*"; to EN17092-2020 series

General Garment Description	Class	Impact Protectors
HEAVY WEIGHT	**AAA**	Elbow & Shoulder / Knee & Hip
MEDIUM WEIGHT	**AA**	Elbow & Shoulder / Knee & Hip
LIGHT WEIGHT (HOT ENVIRONMENT)	**A**	Elbow & Shoulder / Knee
ABRASION PROTECTION GARMENTS	**B**	No
PROTECTOR ENSEMBLE GARMENTS (UNDER OR OVERGARMENTS)	**C**	At least one protector type

Requirements	**AAA**			**AA**			**A**			**B**			**C**		
ZONES	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**
Impact Abrasion	707	442	265	412	265	147	265	147	n/a	265	147	n/a	n/a	n/a	n/a
Seam strength	12	12	8	8	8	6	6	6	4	6	6	4	6	6	4
Tear strength	50	50	35	40	40	30	35	25	25	35	25	25	35	25	25
Cuff restraint	Jacket cuff			Jacket cuff			Jacket cuff			Jacket cuff			Jacket cuff		

Washing and Dry Cleaning (ISO 13688:2013): ~~5 cleaning cycles at 30°C.~~ Dry Cleaning doesn't apply.

CONCLUSION: The garment PASS the requirements of the CLASS AA

The garment has been tested in the conditions as supplied by the client.

Laboratory Technician
(E. Spazzarini)

Laboratory Manager
(J. P. Cuesta Ruiz)

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1. IMPACT PROTECTORS

Tested in accordance with 4.2 of the EN17092-2 (level AAA), EN17092-3 (level AA), EN17092-4 (level A), EN17092-6 (level C)

Impact Energy Absorption (4.2.1)

Impact Protectors present for Elbow, Shoulder: Hip, Knee

Result: Certified EN 1621-1; PASS

Impact Protector Location (4.2.2)

Result: PASS

2. IMPACT ABRASION RESISTANCE

Tested in accordance with 4.5 of the EN17092-1; 9 samples divided in 3 Sample groups (Sample #)

Construction	***1***	*Canvas Cotton + polyester 600D + Kevlar + micromesh + Air mesh (zona 1 class AA)*				
	Speed	Time to stop	Distance to stop	holes ≤ 5mm	**RESULT**	
Sample #	[r.p.m.]	[s]	[m]	[PASS / FAIL]	**CLASS**	**Zone**
1	**412**	**4,4**	**38,203**	PASS		
2	**412**	**4,4**	**38,764**	PASS	**AA**	**Zone1**
3	**412**	**4,4**	**38,530**	PASS		

The evaluation of the construction is only performed on the closest layer to the body

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3. SEAM STRENGTH

Tested in accordance with 4.4 of the EN17092-2 (level AAA), EN17092-3 (level AA), EN17092-4 (level A), EN17092-5 (level B), EN17092-6 (level C)

Seam	***1***	*Main zip*			**S.T.** Zip		**RESULT**
Sample #		[N]	[N/mm]	Min	**CLASS**		**Zone**
1		**616,2**	24,65				
2		**701,8**	28,07	**23,01**			
3		**575,2**	23,01		**AAA**	**1 & 2**	

Failure Mode: Zip breaks

Seam	***2***	Textile zip + canvas cotton			**S.T.** 5.1		**RESULT**
Sample #		[N]	[N/mm]	Min	**CLASS**		**Zone**
1		**345,1**	13,80				
2		**286,3**	11,45	**11,45**	**AA**	**1 & 2**	
3		**293,1**	11,72		**AAA**	**3**	

Failure Mode: Seam breaks

Seam	***3***	canvas cotton + canvas cotton			**S.T.** 5.2		**RESULT**
Sample #		[N]	[N/mm]	Min	**CLASS**		**Zone**
1		**350,2**	14,01				
2		**327,0**	13,08	**12,98**			
3		**324,4**	12,98		**AAA**	**1 & 2**	

Failure Mode: Seam breaks

Seam	***4***	Zip 2			**S.T.** Zip		**RESULT**
Sample #		[N]	[N/mm]	Min	**CLASS**		**Zone**
1		**206,7**	8,27				
2		**205,5**	8,22	**8,20**	**AA**	**1 & 2**	
3		**205,1**	8,20		**AAA**	**3**	

Failure Mode: Zip breaks

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Seam	***5***	Textile zip 2 + canvas cotton			**S.T.** 5.1	**RESULT**
Sample #		[N]	[N/mm]	Min	**CLASS**	**Zone**
1		**235,6**	9,42			
2		**224,2**	8,97	**8,97**	**AA**	**1 & 2**
3		**262,8**	10,51		**AAA**	**3**

Failure Mode: Seam breaks

Seam	***6***	canvas cotton + canvas cotton			**S.T.** 1.1	**RESULT**
Sample #		[N]	[N/mm]	Min	**CLASS**	**Zone**
1		**230,4**	9,22			
2		**240,7**	9,63	**8,91**	**AA**	**1 & 2**
3		**222,7**	8,91		**AAA**	**3**

Failure Mode: Seam breaks

Seam	***7***	canvas cotton + canvas cotton			**S.T.** 5.1	**RESULT**
Sample #		[N]	[N/mm]	Min	**CLASS**	**Zone**
1		**276,1**	11,04			
2		**334,3**	13,37	**11,04**	**AA**	**1 & 2**
3		**291,4**	11,66		**AAA**	**3**

Failure Mode: Seam breaks

Pocket Seam	***p1***	*Air mesh + micromesh*		**S.T.** 5.2	
				Pocket seam ≥ 4 N/mm	
Sample #		[N]	[N/mm]	Min	**RESULT**
1		**174,7**	6,99		
2		**147,4**	5,90	**5,90**	**PASS**
3		**153,2**	6,13		

Pocket Seam: Pocket construction that keeps the Protectors inside the Garment

Failure Mode: Textile breaks

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Pocket Seam p2 *Air mesh + micromesh*			**S.T.** 4.1	
			Pocket seam ≥ 4 N/mm	
Sample #	[N]	[N/mm]	Min	**RESULT**
1	**121,3**	4,85		
2	**117,6**	4,70	**4,70**	**PASS**
3	**134,1**	5,36		
Pocket Seam: Pocket construction that keeps the Protectors inside the Garment				

Failure Mode: Textile breaks

See the following photographs for the seam description,

1 –

2 –

3 –

4 –

5 –

6 –

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7 –		
p1–	p2 –	

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4. TEAR STRENGTH

Tested in accordance with the 4.5 of the EN17092-2 (level AAA), EN17092-3 (level AA), EN17092-4 (level A), EN17092-5 (level B), EN17092-6 (level C) equivalent to the EN 4674-1 method B (for textiles) and EN 3377-1 (for leather)

Material	***1***	*Canvas cotton*					
Orient.	#	[N]	Average	CLASS	Zone	**CLASIFICATION**	
	1	86,3		A	1		
X	2	85,0	**84,87**	AA	1&2		
	3	83,3		AAA	1&2		
	4	75,1		A	1	**A**	**1**
Y	5	97,2	**82,43**	AA	1&2	**AA**	**1&2**
	6	75,0		AAA	1&2	**AAA**	**1&2**

Pocket Material	***p1***	*Air mesh*		
		FORCE		**Tear Strength ≥ 10 N**
#	#	[N]	Average	**RESULT**
	1	31,5		
X	2	33,0	**34,23**	**PASS**
	3	38,2		
	4	29,1		
Y	5	29,7	**31,13**	**PASS**
	6	34,6		
Pocket construction that keeps the Protectors inside the Garment				

Pocket Material	***p2***	*micromesh*		
		FORCE		**Tear Strength ≥ 10 N**
#	#	[N]	Average	**RESULT**
	1	21,1		
X	2	22,1	**22,13**	**PASS**
	3	23,2		
	4	14,1		
Y	5	15,7	**15,13**	**PASS**
	6	15,6		
Pocket construction that keeps the Protectors inside the Garment				

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1 –		
p1 –	p2 –	

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5. RESTRAINT

Tested in accordance with 5.5 of the EN17092-1

Restraint systems, which join sleeves directly to gloves or which join trousers directly to boots, shall be exempt from restraint testing.
*When tested in accordance with the methods described in **clause 5.5** the garment shall meet the following requirements, as appropriate,*

Restraint of impact protectors

Test Result: PASS

Connection between two-piece suits

Test Result: PASS

Sleeve restraint

Tested in accordance with 5.5.3.2 of the EN17092-1. NOT APPLICALBE FOR TROUSERS

Omega ID	Samples	Cone	N (50±2)	RESULT (Pass/Fail)
1 – sleeves	M - MEN version	4	60	PASS
2 – sleeves	M - MEN version	4	60	
1 – sleeves	M - LADY version	4	60	PASS
2 – sleeves	M - LADY version	4	60	

Garment sleeve restraint

In accordance with the 4.6.3 of the EN17092-2 (level AAA), EN17092-3 (level AA), and EN17092-4 (level A); the 4.5.3 of EN17092-5 (level B); the 4.6.2 of EN17092-6 (level C)
An adjustable restraint system shall be incorporated into the wrist or cuff
Test Result: PASS

6. GARMENT PERFORMANCE AFTER CLEANING

*Garments shall be cleaned according to **EN 13688 Clause 5.2** prior to testing and shall conform to the requirements specified in clauses **4.3. – 4.8** after the required number of cleanings.*
***Note:** It is not necessary to carry out repeat testing after cleaning for garments where only trivial surface cleaning treatments, which are considered not to affect the performance of the garment are recommended, for example wiping with a damp sponge.*
Washing procedure (ISO 6330:2012): 5 cleaning cycles at 30°C. Dry Cleaning doesn't apply. Washing Machine Type A1; Line Dry in Open Air; Detergent type 3. Total washing mass 2.06kg without ballast

Dimensional stability: the variation in dimensions shall not exceed 5%

Test Result: NOT APPLICABLE

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7. RISK CATEGORY ZONING

Tested in accordance with 5.2 of the EN17092-1
Materials and construction are allowed in Zone 2, which only meet Zone 3 requirements, for the purposes of elasticity and ventilation. The total area permitted of Zone 3 materials and construction in Zone 2 shall be calculated according to Table 6, where "W" = the waist circumference "E" (in cm),

Garment	Part of Garment	See Location Reference	Zone 3 area permitted in Zone 2
One-piece Suit	Above Waistline	EN 17092-1:2020, 3.2	W x W x 0,048
One-piece Suit	Below Waistline		
Two-piece Suit	Above Waistline		
Two-piece Suit	Below Waistline		
Jacket Separates	Above Waistline		
Trouser Separates	Below Waistline	EN 17092-1:2020, 3.3	

PASS there are not Intrusions of Zone 3 materials in the Zone 2

Calculation and location of the secondary reference points. Measured from primary reference point					
		Secondary reference point 1		***Secondary reference point 2***	
Circumference	***Ref. Point***	***Point***	***Located at % of circumference***	***Point***	***Located at % of circumference***
A (Neck)	***A***	***A1***	***20%***	***A2***	***80%***
B (Shoulder)	***B***	***B1***	***24%***	***B2***	***64%***
C (Elbow)	***C***	***C1***	***40%***	***C2***	***60%***
D (Wrist)	***D***	***D1***	***50%***	***D2***	***70%***
E (Waist)	***E***	***E1***	***12.5%***	***E2***	***87.5%***
F (Knee)	***F***	***F1***	***35%***	***F2***	***80%***
G (Ankle)	***G***	***G1***	***20%***	***G2***	***45%***

Note: *The calculation of secondary reference points shall be to the nearest* ***0.5*** *cm.*

Operators: Insert Operator's Name

See ANNEX A for identification of Zone 1, Zone 2 and Zone 3 in the garment.

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8. FIT AND ERGONOMICS

Tested in accordance with 5.6 of the EN17092-1

VERSION:	*MEN*	*LADIES*
Size tested:	*M*	*M*
Chest [cm] / Waist [cm]:	*96 / 82*	*92 / 80*
External dimensions of the garment		

		Pre-donning assessment		**(1)**
1.	a.	Do any metallic, ceramic, plastic or similar hard materials present as studs, staples, rivets, plates, or other structures, used to form part of the protective layer of the garment, pose a hazard to the user?	~~Yes~~	No
	b.	Does the construction of the garment protect the body from such structures when necessary?	Yes	~~No~~
	c.	When such features do penetrate the protective layer, Are the inner surfaces of these features are flush to the protective layer?	Yes	~~No~~
	d.	Is the garment free from any rough, sharp or hard components, or other features that might cause irritation or that would make riding hazardous?	Yes	~~No~~
2.		Is the garment sized in accordance with the manufacturer's fit information and in accordance with the fit instructions supplied in the manufacturer's information notice for users, or according to EN ISO 13688:2013 or is it made-to-measure?	Yes	~~No~~
		Donning		
3.	a.	Is It possible to put on the garment and to operate the fasteners and adjusters without impediment?	Yes	~~No~~
	b.	Is it possible to don gloves and helmet while wearing the garment?	Yes	~~No~~
		Off-bike activities		
4.		Can the following be carried out without difficulty?		
	a.	Walking on the flat.	Yes	~~No~~
	b.	Mounting and dismounting a motorcycle or a device that mimics one.	Yes	~~No~~
		Riding actions and compatibility with other Items of PPE		
5.		Is it possible to perform the following without difficulty?		
	a.	Sit astride a motorcycle or device that mimics it, while adopting a riding position.	Yes	~~No~~
	b.	Make the body movements and position changes necessary to control the motorcycle.	Yes	~~No~~
	c.	While holding both handlebar grips, turn the head to look to the rear.	Yes	~~No~~
6.		Are all impact protectors correctly positioned in such a way as to protect the appropriate body parts (refer to clause 5.3.1) whilst not preventing adequate movement of limbs or impeding the rider's effective control of the motorcycle?	Yes	~~No~~
7.		Is the garment free of unnecessary tightness, which restricts body movement or blood flow in such a way as to prevent effective operation of the motorcycle?	Yes	~~No~~
8.		Does the garment fit without creating dangerous interference with the helmet?	Yes	~~No~~

Operator: MAN (84 cm)/(76 cm) lady (85,5cm)/(72cm)

Test Result: PASS

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Vents

Openings created by vents shall be completely covered by SSL material that meets the applicable zone requirements or the vent opening shall be filled with material that meets the applicable zone requirements

Test Result:

Vents are completely covered by SSL material: PASS

Its opening is restricted to 4 cm or less in width: YES

PASS: the vent opening is filled with SSL material

Pockets

Pockets creating an opening in the SSL shall have SSL material inside which fills the exposed opening and extends along the interior of the pocket beyond the opening at least an additional 3cm. If the pocket crosses over two zones, the material filling the exposed opening shall meet the higher zone requirements, if applicable.

Test Result: PASS

Use of Open Mesh Materials

Mesh materials that are woven or knitted with any openings greater than 5 mm in any direction shall not be used as the only layer of the SSL

Test Result: PASS

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ANNEX A: GARMENT IMAGES

ZONE 1 – around Shoulder, Elbow Hip and Knee

ZONE 2 & ZONE 3 – See the following image for the identification of Zones 2 & 3

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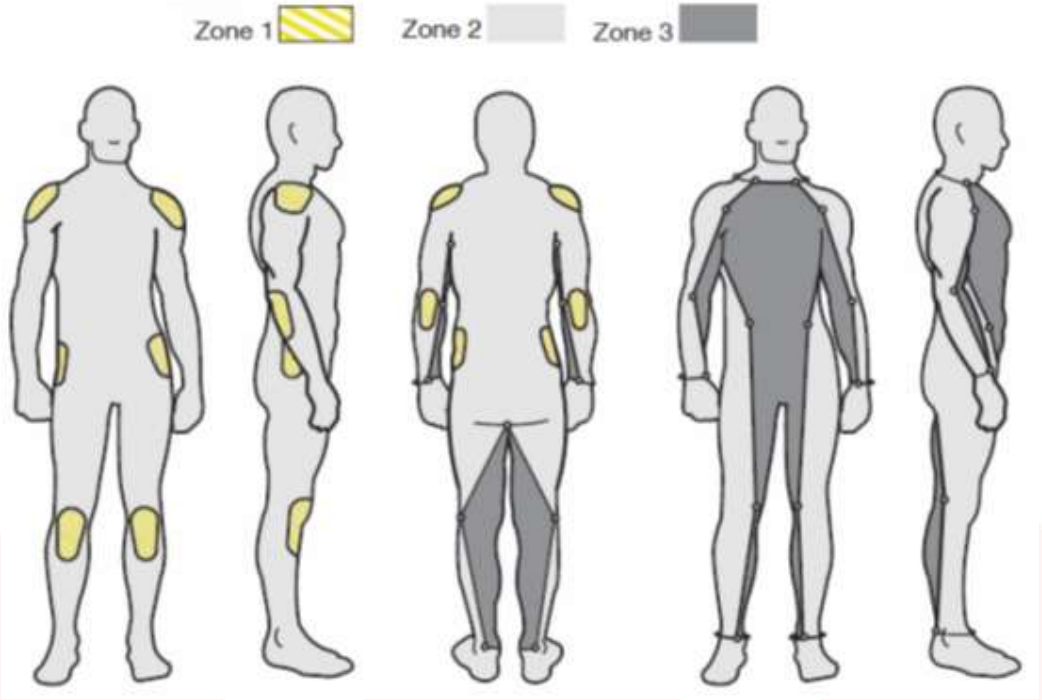
IDENTIFICATION OF ZONES



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ANNEX: EQUIPMENT

Used Machine	Identifier /Manufacturer	Expiry Date
Dynamometer	M0404 (ACQUATI)	12.12.2027
Darmstadt	M0403 (DERTECH)	19.06.2026

Decision Rule: Omega applies a binary decision rule which applies when the result is limited to two choices (PASS or FAIL). More in detail a Binary Statement Simple Acceptance Rule (w=0) as described in the reference Guide Line: ILAC-G8:09/2019.

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