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TECHNICAL REPORT

Hooligan Jeans Official Limited 10 Jennings Terrace Kendal LA9 4ET United Kingdom	SATRA reference:	SPC2021499	
		2514	1
	Report ID/Issue number:	50803/1	
	Your reference:		
	Date samples received:	14/03/2025	
	Date(s) work carried out:	07/04/2025 to 16/04/2025	
	Date of report:	17/04/2025	

Testing Requirements

Limited testing of men's motorcycle garment described as Hooligan Jeans in accordance with EN 17092-3:2020

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Report Signed by:

Adeola Gbolahan


Report Signatory

Work Requested

Garment deemed for motorcycle use was received for assessment in accordance with EN 17092-2:2020, EN 17092-3:2020 and EN 17092-4:2020

Sample Conditioning

Garments were declared washable, therefore prior to testing, the garment was cleaned 5 times in accordance with ISO 6330: 2021 washing procedure 3N (30°C), followed by ISO 6330: 2021 drying procedure A - line dry. See appendix for more detail.

Samples were conditioned for at least 24 hours in a conditioned environment maintained at (23±2) °C and (50±5) % relative humidity. Testing was started within 30 minutes of the removal from that environment and was tested in an atmosphere with temperature of (23±5) °C and 15% to 75% relative humidity.

Conclusion

Standard	Clause / Test	Result
EN 17092-2:2020 EN 17092-3:2020 EN 17092-4:2020	4.1.3 Dimensional stability	Pass
	4.2.1 Impact energy absorption	See Note 1
	4.2.2 Impact protector location & fixation	Pass
	4.8 Fit and ergonomics	Pass

Note 1 - This shall be fully assessed during the Type Examination process.

Product Description & Sample Identification

Garment reference	Size(s) assessed	Colour(s)
Hooligan Jeans Official Motorcycle Protective Jeans Aramid lined with level 2 Knee and hip armour	36	Black

Product Images



Figure 1: front of garment - external

Product Images



Figure 2: back of garment – external

Product Images



Figure 3: front of garment – internal

Product Images



Figure 4: back of garment – internal

Requirements

Table 1 – Impact protection requirements

Location	Class AAA - AA	Class A	Class B	Class C
Elbow	Mandatory	Mandatory	No protectors are required	At least one protector type is mandatory
Shoulder	Mandatory	Mandatory		
Chest	Optional	Optional		
Back	Optional	Optional		
Knee	Mandatory	Mandatory		
Hip	Mandatory	Optional		

Test Results – EN 17092-2:2020, EN 17092-3:2020 and EN 17092-4:2020

Clause	Requirements	Comments	Result
4.1.3 Dimensional stability of garments	Dimensional stability shall be assessed on the whole garment according to EN ISO 5077:2008. The sample shall be submitted to washing according to EN ISO 13688:2013, 5.2. The variation shall not exceed 5%	Largest variation recorded: -3.4% Location: G1 See appendix for all results	Pass

Clause	Requirements	Comments	Result
4.2 Impact energy absorption	Impact protectors shall be present within the garment and whether mandatory or optional, shall meet at least the Level 1 of the requirements according to the standards listed in Table 1. For garments with pockets for optional impact protectors, there shall be at least one type of impact protector that is available for each protector pocket.	Compliant EN 1621 protectors were fitted at the Knee and optional protector pocket was present at the Hip, see Table 2 .	See Note 1
4.2.1 General	Pockets intended for impact protectors shall not contain any other items other than impact protectors complying with the applicable part of EN 1621. EN 1621-1 protectors shall be positioned in the garment so that they cover the appropriate body part according to the relevant impact protector standard.	Certificates will be assessed during the Type Examination process.	

Table 2 – Mandatory and optional fitted impact protection

Location	Manufacturer	Reference	Pocket Dimensions	
			Width (mm)	Length (mm)
Knee	WINNER	PART 2631 S/E/K TYPE A LEVEL 2	160	235
Hip *	WINNER	PART H 7002 H TYPE B LEVEL 2	140	220

Protector locations marked with * may be optionally fitted, and are not required to be supplied with the garment unless stated in the user notice. Hip protection is deemed to be optional only in Classes A, B or C.

Note 1 - This shall be fully assessed during the Type Examination process.

Clause	Requirements	Comments	Result
<p>4.2.2 Impact protector location & fixation</p> <p>(Internal)</p>	<p>Internal or external impact protectors present in or on garments shall be correctly positioned in or on the garment no matter which system is used to hold them in place.</p> <p>Garments, with impact protector pockets for location of optional impact protectors listed in the information notice for users, shall be manufactured to ensure correct positioning of the inserted impact protector.</p> <p>EN 1621 series impact protectors shall be positioned in the garment so that they cover the appropriate body part according to the relevant impact protector standard.</p> <p>Impact protectors shall be appropriately restrained after the following checks:</p> <ul style="list-style-type: none"> a) A visual and tactile check to confirm that protectors are over the correct location on the body also while performing the ergonomic exercises. b) A visual and tactile check to confirm that the protectors are secure within the pockets. c) A visual and tactile check to confirm that protectors restrained by other means are secured in their position 	<p>Protectors were correctly positioned and held within pockets, closed by hook and loop. Correct positioning was maintained during ergonomic assessments.</p>	<p>Pass</p>

Clause	Requirements	Comments	Result
<p>4.2.2 Impact protector location & fixation (External)</p>	<p>External protectors (in pockets):</p> <p>External pocket materials and closures for the impact protectors shall meet the appropriate zone requirements and the pocket or pocket closure shall not open during testing.</p> <p>The design of external pockets or pocket closures for hard impact protectors may allow the hard impact protector to be exposed but the protector shall not be released from the pocket during testing and the exposed portion of the installed impact protector and its pocket system shall meet all Zone 1 requirements.</p> <p>External protectors (no pockets):</p> <p>Exposed portions of the impact protectors and their attachment systems shall meet all appropriate zone. Attached protectors shall not be released from the garment during testing.</p> <p>The protectors shall not be attached to the garment solely by means of hook and loop fastener material.</p> <p>Optional divided chest protectors:</p> <p>When installed in or on a garment, the distance between the two parts of the protector shall be no more than 50 mm</p>	<p>No external protectors or divided chest protection was present</p>	<p>N/A</p>

Clause	Requirements	Comments	Result									
4.8 Fit and ergonomics	<p>Garments shall fit in accordance with the manufacturer's size labelling and in accordance with the fit information and fit instructions supplied in the manufacturer's information notice for users and they shall be sized in accordance with a size system, or EN ISO 13688:2013 or shall be made-to-measure.</p> <p>When tested in accordance with the method described in EN 17092-1:2020, 5.6, the assessor shall be able to carry out all the essential movements while wearing the test garment and all responses given by the assessor to the questions detailed in EN 17092-1:2020, 5.6, Table 11, shall be positive. Hard sharp edges or sharp points shall not be present on the interior or exterior of garments.</p> <p>The construction of the garment shall protect the body from structures when necessary. Such features are permitted to penetrate the SSL provided the inner surfaces of these features are flush to the SSL.</p>	<p>Garment was labelled as size 36.</p> <p>The garment fits in accordance with the size chart provided and all ergonomic responses were positive when donned by an assessor (measurements noted below).</p> <p>The fitting and size chart will be further assessed during the Type Examination process.</p> <p>Assessor's measurements:</p> <table border="1"> <thead> <tr> <th></th> <th>Size chart (cm)</th> <th>Subject 1 (cm)</th> </tr> </thead> <tbody> <tr> <td>Height</td> <td>178-183</td> <td>180</td> </tr> <tr> <td>Waist</td> <td>86-91</td> <td>90</td> </tr> </tbody> </table>		Size chart (cm)	Subject 1 (cm)	Height	178-183	180	Waist	86-91	90	Pass
	Size chart (cm)	Subject 1 (cm)										
Height	178-183	180										
Waist	86-91	90										

Uncertainty of Measurement

Clause	Test		UoM applied
4.1.3	Dimensional stability	EN ISO 13688:2013	±0.3%
4.2	Impact energy absorption	EN 1621-1:2012 EN 1621-2:2014 EN 1621-3:2018	Force ±1.0% Force ±1.0% Force ±1.0%

Appendix: Additional Information

Washing Details – ISO 6330:2021

Washing was carried out in accordance with EN ISO 6330:2021	
Conditioning	(20±2) °C (65±4%) RH
Machine type	washing machine Type A
Washing procedure	3N
Detergent type	Reference detergent 3 with perborate
Number of cycles	5
Drying procedure	A
Sample air-dry load mass	1kg
Ballast air-dry load mass	1kg
Type of Ballast	Polyester
Washing procedures completed back-to-back for all cycles followed by one drying procedure. Dimensional change was carried out in accordance with EN ISO 5077:2008 and BS EN ISO 3759:2011	

Dimensional Stability Measurements – BS EN ISO 3759:2011

Reference	Measurement Description (Trouser-Like Garments)	Change (%)
MAIN GARMENT		
A1	Length from top to junction of leg seams at the front, excluding the waistband (Left)	-2.5
A2	Length from top to junction of leg seams at the front, excluding the waistband (Right)	-2.3
B1	Length from top to junction of leg seams at the back, excluding the waistband (Left)	-2.7
B2	Length from top to junction of leg seams at the back, excluding the waistband (Right)	-2.6
C1	Inside leg from crotch to bottom of leg; if the leg is short, measure from the bottom of one leg to the bottom of the other leg via the crotch (Left)	-1.8
C2	Inside leg from crotch to bottom of leg; if the leg is short, measure from the bottom of one leg to the bottom of the other leg via the crotch (Right)	-1.8
D	Width at waist	-2.2
E1	Width at bottom of leg (Left)	0.0
E2	Width at bottom of leg (Right)	0.0
F1	Width of leg halfway between crotch and bottom of leg, i.e. knee (omit if leg length is short) (Left)	0.0
F2	Width of leg halfway between crotch and bottom of leg, i.e. knee (omit if leg length is short) (Right)	0.0
G1	Width of top of leg, i.e. thigh (Left)	-3.4
G2	Width of top of leg, i.e. thigh (Right)	-1.7

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When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

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