

# TEST REPORT

Report Ref: LEI24010113A	
Date Received: 03/01/2024	Date Issued: 24/01/2024

Company Name &	Smart Rider LTD
Address:	Mishmar Hanegev 1
	Mishmar Hanegev
	853500
	Israel
Contact Name:	Yoram

Order No.:	None given
Description:	Equestrian body protector
Ref / Style number:	#316
No. of Samples:	7
Size Range:	CXXS-AL 9 sizes
Foam description:	Multi layers NBR total 22mm
Specification:	BS EN 13158:2018 - Protective jackets, body and shoulder protectors for equestrian use, for
	horse riders and those working with horses, and for horse drivers.

Tests Conducted	Method	Pass/Fail
Protective material dimensions in protective jackets and body protectors	BS EN 13158:2018 clause 4.2.2	Pass
Exceptions to the requirements in clause 4.2.2	BS EN 13158:2018 clause 4.2.3	Pass
Adaptability and adjustability	BS EN 13158:2018 clause 4.2.5	Pass
Movement of protective material blocks and gaps between them	BS EN 13158:2018 clause 4.3	Pass
Restraint	BS EN 13158:2018 clause 4.4	Pass
Ergonomic requirements	BS EN 13158:2018 clause 4.5	Pass
Impact performance requirements	BS EN 13158:2018 clause 4.6	Pass

**COMMENT:** 

Where the results of a test fall close to the requirement, compliance with the specification may be

affected by the uncertainty of measurement of the test.

In those circumstances, the client is advised to contact the laboratory for further information.

Unmarked tests included in this report are included on UKAS Scope 1516.

Simon Bretherton

Technical/Quality Coordinator

IIac-MRA

UKAS TESTING





Manufacturers' cleaning instructions									
Sample identification	Is protective material removed?	Type of cleaning of protective material	Maximum number of cycles						
Model #316	No	Remove foam before handwashing outer	N/A						
Is cl	eaning up to 5 time	No							

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5NQ



# DESIGN AND MEASUREMENT FOR HORSE RIDERS BS EN 13158:2018 Clause 4.2.2

# **RESULTS**

								11255									
							<b>R</b> equi	ed Value	e, cm 'mo	ore than' to sign	, or 'less	than' ac	cording	<b>M</b> easu	<b>M</b> easured Value (cm)		
				Size				Child XS	#316 Child XS		#316 Child S		#316 0	hild M #316 /		Adult XS	
							Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
			Α				64	68	68	72	72	77	77	81	83	87	
			В	Manut	acturer's Si Chart	ize	60	66	64	70	69	74	74	77	79	82	
			С		Cilait		63	68	67	72	72	77	78	84	83	90	
		ı	D-D¹ E-E¹		¼ A <sub>max</sub>		17	7.0	1	.8	19	9.3	20	.25	21	.75	
			М		½ C <sub>max</sub>		3	34	3	36	38	3.5	4	-2	4	5	
			Mea	suremer	its		R	М	R	М	R	М	R	М	R	М	
			A <sup>1</sup> <sub>min</sub>	<	107% A <sub>min</sub> D	)	68.5	67.0	72.8	70.0	77.0	78.0	82.4	77.0	88.8	83.0	
			$A^1_{min}$	<	107% A <sub>min</sub> <b>A</b>		68.5	0.0	72.8	0.0	77.0	74.0	82.4	0.0	88.8	0.0	
			A <sup>1</sup> max	>	103% A <sub>max</sub>		70.0	73.0	74.2	76.0	79.3	85.0	83.4	86.0	89.6	90.	
			B <sup>1</sup> <sub>min</sub>	<	110% B <sub>min</sub> <b>D</b>	)	66.0	64.0	70.4	68.0	75.9	73.0	81.4	73.0	86.9	79.	
			B <sup>1</sup> <sub>min</sub>	<	110% B <sub>min</sub> <b>A</b>		66.0	0.0	70.4	0.0	75.9	70.0	81.4	0.0	86.9	0.0	
,	H		B <sup>1</sup> max	>	102% B <sub>max</sub>		67.3	69.0	71.4	74.0	75.5	81.0	78.5	81.0	83.6	87.	
-	Clause 4.2.2 Table 1	D	Chest		>43% C <sub>max</sub>		29.2	36.3	31.0	36.7	33.1	38.3	36.1	41.7	38.7	45.	
ŀ	- 7	Е	Back		>57% C <sub>max</sub> >52% C <sub>max</sub> >15% C <sub>max</sub> >28% C <sub>max</sub> >27% A <sub>max</sub> >20% A <sub>max</sub>		38.8	42.1	41.0	47.4	43.9	47.5	47.9	52.1	51.3	58.	
,	4.2	F	C/Back				35.4	37.2	37.4	41.3	40.0	41.6	43.7	46.4	46.8	48.	
	nse	G	Size				10.2	14.6	10.8	17.2	11.6	15.8	12.6	18.1	13.5	19.	
7	Cla	Н	C/Front				19.0	22.3	20.2	23.7	21.6	24.5	23.5	26.0	25.2	27.	
		ı	Back W				18.4	21.3	19.4	20.8	20.8	21.9	21.9	24.7	23.5	24.	
		J	Chest W				13.6	21.1	14.4	22.5	15.4	22.2	16.2	22.5	17.4	22.	
		K	W Back		>20% A <sub>max</sub>		13.6	58.3	14.4	61.6	15.4	53.7	16.2	38.5	17.4	29.	
		L	Arm-H		<80% A <sub>max</sub>		54.4	46.0	57.6	48.0	61.6	51.0	64.8	55.0	69.6	59.	
		N	Sh Strap		>4% A <sub>max</sub>		2.7	3.2	2.9	3.2	3.1	3.5	3.2	3.4	3.5	3.8	
			Waist total		Outer ½	+	6.8	2.1	7.2	2.5	7.7	2.9	8.1	0.0	8.7	2.3	
			½ Th =	Left	Inner ½		0.8	2.2	7.2	2.6	7.7	3.5	8.1	4.0	6.7	4.3	
	(0)		<0.1 A <sub>max</sub>		OL>		2.5	3.5	2.5	3.5	2.5	2.9	2.5	4.1	2.5	4.0	
e 1				<u></u>	Outer ½	+	6.8	3.0	7.2	3.2	7.7	1.5	8.1	0.0	8.7	2.2	
.z lable			OL =	Right	Inner ½			2.6		1.9		3.0		4.1		4.6	
Clause 4.2.2			>25 mm		OL>		2.5	3.2	2.5	3.5	2.5	4.1	2.5	4.7	2.5	4.2	
nse				Overa	all Exception		13.6	9.9	14.4	10.2	15.4	10.9	16.2	8.1	17.4	13.	
Cla			Shoulder		L <sub>2</sub> Front		3.2	1.4	3.3	1.1	3.5	1.7	3.6	0.3	3.8	1.4	
			½ Th		L <sub>2</sub> Back		3.2	0.4	3.3	1.0	3.5	1.3	3.6	0.8	3.8	1.3	
			L <sub>2</sub> =	Left	L <sub>3</sub> OL >	•	2.5	3.0	2.5	2.7	2.5	2.5	2.5	4.3	2.5	2.9	
	(a)	<(	0.035A <sub>max</sub> + 8 mm	_	L <sub>1</sub> Front		6.2	2.3	6.3	1.5	6.4	1.9	6.4	2.4	6.6	1.9	
			<b>L</b> <sub>3</sub> OL =		L <sub>1</sub> Back		6.2	2.4	6.3	3.4	6.4	3.5	6.4	3.3	6.6	3.6	
			>25mm	Rig	L <sub>2</sub> Front	<	3.2	1.2	3.3	1.4	3.5	1.0	3.6	0.4	3.8	1.1	

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	L <sub>1</sub> =	L <sub>2</sub> Back <	3.2	0.3	3.3	0.9	3.5	1.1	3.6	0.8	3.8	1.0
	Value in	L <sub>3</sub> OL >	2.5	2.7	2.5	2.8	2.5	2.8	2.5	4.5	2.5	3.0
	Table 2 in	L <sub>1</sub> Front <	6.2	2.3	6.3	2.0	6.4	1.4	6.4	2.5	6.6	2.0
	EN 13158	L <sub>1</sub> Back <	6.2	2.0	6.3	3.3	6.4	4.0	6.4	3.2	6.6	3.1
(q)	UA ½ Th =	L≤										
9	≤25 <sup>-4</sup> A <sup>2</sup>	R≤										
	Ad (girth)	>5% A <sub>max</sub>	3.4	6.0	3.6	6.0	3.9	7.0	4.1	9.0	4.4	7.0
2.5	Ad A <sub>max - min</sub>	>80% <sub>max - min</sub> A	3.2	6.0	3.2	6.0	4.0	7.0	3.2	9.0	3.2	7.0
se 4	'Over ridin		73.0		76.0		11.0		86.0		90.0	
Clause 4.2.5	Width of coloured	Shoulder	1.0	5.0	1.0	5.0	1.0	5.0	1.0	5.0	1.0	5.0
O	markers > 10 mm	Waist	1.0	6.0	1.0	8.0	1.0	6.0	1.0	6.0	1.0	6.0

							<b>R</b> equired Value, cn	n 'more than', or 'les to sign	s than' according	<b>M</b> easured Value (cm	
		Size					#316	#316 Adult S			
							Min	Max	Min	Max	
		A					88	93	98	104	
			В	Manut	anufacturer's Size Chart		83	90	96	102	
		С			Citait		86	93	92	97	
		[	D-D <sup>1</sup> E-E <sup>1</sup>		¼ A <sub>max</sub>		2:	3.3		26	
			М		½ C <sub>max</sub>		40	6.5		48.5	
			Mea	suremen	its		R	M	R	M	
			$A^1_{min}$	<	107% A <sub>min</sub> <b>D</b>		94.2	85.0	104.9	101.0	
			$A^1_{min}$	<	107% A <sub>min</sub> <b>A</b>		94.2	0.0	104.9	0.0	
			$A^1_{max}$	>	103% A <sub>max</sub>		95.8	98.0	107.1	110.0	
			B <sup>1</sup> <sub>min</sub>	<	<110% B <sub>min</sub> <b>D</b>		91.3	82.0	105.6	95.0	
			B <sup>1</sup> <sub>min</sub>	<	<110% B <sub>min</sub> <b>A</b>		91.3	0.0	105.6	0.0	
•	Clause 4.2.2 Table 1		$B^1_{\text{max}}$	>102% B <sub>max</sub>		91.8	95.0	104.0	107.0		
-		D	Chest	>43% C <sub>max</sub>			40.0	47.2	41.7	49.9	
,		Ε	Back	:	>57% C <sub>max</sub>		53.0	57.0	55.3	61.2	
,	2.7	F	C/Back	:	>52% C <sub>max</sub>		48.4	49.5	50.4	53.7	
	inse	G	Size	:	>15% C <sub>max</sub>		14.0	16.5	14.6	18.0	
7	5	Н	C/Front	:	>28% C <sub>max</sub>		26.0	29.5	27.2	31.6	
		ı	Back W		>27% A <sub>max</sub>		25.1	26.2	28.1	29.8	
		J	Chest W		>20% A <sub>max</sub>		18.6	22.6	20.8	24.4	
		K	W Back		>20% A <sub>max</sub>		18.6	26.6	20.8	37.5	
		L	Arm-H		<80% A <sub>max</sub>		74.4	69.0	83.2	76.0	
		N	Sh Strap		>4% A <sub>max</sub>		3.7	3.8	4.2	4.5	
		,	Waist total		Outer ½	+	9.3	2.2	10.4	1.4	
ble 1			½ Th =	Left	Inner ½	,	5.5	6.8	10.4	4.1	
Ta	<u>0</u>		<0.1 A <sub>max</sub>		OL>		2.5	2.6	2.5	3.7	
Clause 4.2.2 Table 1	e 4.2.2 T			Outer ½	+	9.3	2.5	10.4	2.7		
Claus			OL =	Right	Inner ½	'	5.5	6.1	10.4	3.5	
			>25 mm		OL>		2.5	2.6	2.5	3.7	
				Overa	all Exception	ıs^	18.6	17.6	20.8	11.7	

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	Shoulder		L <sub>2</sub> Front <	4.1	1.7	4.4	2.3
		-					
	½ Th		L <sub>2</sub> Back <	4.1	1.4	4.4	2.1
	L <sub>2</sub> =	Left	L <sub>3</sub> OL >	2.5	2.5	2.5	2.6
	<0.035A <sub>max</sub> + 8 mm	Ľ	L <sub>1</sub> Front <	6.7	2.0	6.9	3.1
(a)	<b>L</b> <sub>3</sub> OL =		L <sub>1</sub> Back <	6.7	3.5	6.9	3.9
	>25mm		L <sub>2</sub> Front <	4.1	1.8	4.4	2.0
	L <sub>1</sub> =		L <sub>2</sub> Back <	4.1	1.7	4.4	1.2
	Value in	Right	L <sub>3</sub> OL >	2.5	2.7	2.5	3.0
	Table 2 in	<u> </u>	L <sub>1</sub> Front <	6.7	2.6	6.9	3.2
	EN 13158		L <sub>1</sub> Back <	6.7	3.4	6.9	2.8
(q)	UA ½ Th =		L≤				
<u>a</u>	≤25 <sup>-4</sup> A <sup>2</sup>		R≤				
	Ad (girth)		>5% A <sub>max</sub>	4.7	13.0	5.2	9.0
1.2.5	Ad A <sub>max-min</sub>	>8	0% <sub>max - min</sub> A	4.0	13.0	4.8	9.0
se 4	'Over ric	ding va	lue'		98.0		110.0
Clause 4.2.5	Width of coloure	d	Shoulder	1.0	5.0	1.0	5.0
	markers > 10 mn	n	Waist	1.0	6.0	1.0	6.0

<sup>^</sup> Note: Should one side of the waist half thickness gaps on the garment fail. This could indicate unevenness in the distribution of the foam. However, providing the overall exceptions pass, the garment passes this area but attention is required.

UoM: ±4.14%

Key to dim	ensions (see previous page)
A <sub>max</sub>	is the chest girth or bust girth given by the manufacturer for the largest user.
A <sub>min</sub>	is the chest girth or bust girth given by the manufacturer for the smallest user
B <sub>max</sub>	is the waist girth given by the manufacturer for the largest size
B <sub>min</sub>	is the waist girth given by the manufacturer for the smallest size
C <sub>max</sub>	is the over-the-shoulder length given by the manufacturer for the largest size
C <sub>min</sub>	is the over-the-shoulder length given by the manufacturer for the smallest size
A <sup>1</sup> max	is the maximum internal girth of the garment below the armholes
A <sup>1</sup> <sub>min</sub>	is the minimum internal girth of the garment below the armholes
A <sup>1</sup> <sub>min</sub> 'D'	'Designed' The minimum girth of the garment below the armholes with the closures closed with half thickness foam butting together
A <sup>1</sup> <sub>min</sub> 'A'	'Absolute' The minimum girth of the garment below the armholes with the closure tightened as far as it will go, half thickness foam riding over full thickness foam.
B <sup>1</sup> max	is the maximum internal girth of the garment at the lower edge of the protective material
B <sup>1</sup> <sub>min</sub>	is the minimum internal girth of the garment at the lower edge of the protective material.
B <sup>1</sup> <sub>min</sub> 'D'	'Designed' The minimum girth of the garment at the lower edge of the protective material with the closure closed with half thickness foam butting together.
B <sup>1</sup> <sub>min</sub> 'A'	'Absolute' The minimum girth at the lower edge of the protective material with the closure tightened as far as it will go, half thickness foam riding over full thickness foam
D and D <sup>1</sup>	are vertical lines on the chest separated by a distance of 25% of A
E and E <sup>1</sup>	are vertical lines on the back separated by a distance of 25% of A
F	is the centre back line.
G	is the height of the side below the armhole
Н	is the centre front length
I	is the width across the back between the armholes measured at a level half-way down the armhole opening

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J	is the width across the chest between the armholes measured at a level half-way down the armhole opening
K	is the width at the back at a distance equal to 50% of dimension C <sub>max</sub> from the neck inlet
L	is the circumference of the armhole.
М	is the distance below the centre of the back of the neck of the garment at which dimension K is measured. (M = 0.5 C <sub>max</sub> )
N	is the smallest with of the shoulder strap

	PROTECTIVE MATERIAL DIMENSIONS IN PROTECTIVE JACKETS AN EXCEPTIONS TO THE REQUIREMENTS BS EN 13158:2018 Clauses 4.2.2 & 4.2.3	D BODY PROTECTOR	S &
Clause	RESULTS  Question	Answer	Result
4.2.2	Were any removable parts of torso protection found?	No	Pass
4.2.2	Did the sample(s) meet the requirements for the dimensions of protective material (clause 4.2.2) with all removable parts taken off?	N/A	Pass
4.2.2	Is the central 200mm of the back (scaled to $A_{max} = 1000$ mm) constructed so that it can only be shortened by a destructive process?	Yes	Pass
4.2.3 (d)	Do shoulder protectors substitute for torso protector material?	No	Pass
4.2.3 (d)	Do such shoulder protectors cover gaps in the torso protection when the arms are raised laterally 60° to the torso and swung forward?	N/A	Pass
4.2.3 (e)	Do perforations in the foam or similar material exceed 15mm diameter?	No	Pass

ADAPTABILITY AND ADJUSTABILITY		
BS EN 13158:2018		
Clause: 4.2.5		
RESULTS		
Examination to ensure appropriate construction of adjuste	ers and closures	
Question	Observation	Result
Is there an absence of excessive touch & close fastener or other features that would permit the garment to be worn with the adjustment set excessively wide?	Yes	Pass
Are there appropriate coloured markers exceeding 10mm in width?		
Or	Yes	Pass
Is there an alternative acceptable system?		
What are the background and contrast colours?	Black/Red	Pass

MOVEMENT OF PROTECTIVE MATERIAL BLOCKS AND GAPS BETWEEN THEM BS EN 13158:2018 Clause 4.3							
RESULTS							
Question Answer Result							
Do the test bars come into contact in any gaps between padding block in the test described in clause 5.5 of EN 13158? And if so list examples  No - A  Pass							

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#### **CLOSURE STRENGTH OF ADJUSTERS AND RESTRAINT** BS EN 13158:2018 Clause 4.4 **RESULTS** Closure strength Did the Did any gap in the closure open? protective padding Condition of the test less than 15mm wide Position of closure Result appear? Yes / No Yes / No Widest setting of adjusters, 50N pull Waist Left Side No No Pass Widest setting of adjusters, 50N pull Waist Right Side No No Pass Widest setting of adjusters, 50N pull Shoulder Left Side No No Pass Widest setting of adjusters, 50N pull Shoulder Right Side No No Pass Widest setting of adjusters, 50N pull Centre Front No No Pass Restraint Maximum movement during 50N pull to be less than $A_{max} \times 0.1 =$ 8.7 cm Position of clamp Direction of pull Movement in cm Result Lower edge – Centre Front Upwards 2.5 Pass Lower edge - Left side Upwards 3.0 Pass 3.0 Lower edge - Right side Upwards Pass Lower edge - Centre Back Upwards 4.0 Pass Shoulder area, pull on the edge of the arm hole on the chest 2.5 **Forwards** Pass Shoulder area, pull on the edge of the arm hole at the top Upwards 2.5 Pass Shoulder area, pull on the edge of the arm hole on the back **Backwards** 3.0 Pass

UoM: ±5.71%

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## ERGONOMIC REQUIREMENTS BS EN 13158:2018 Clause 4.5

### **RESULTS**

Wearing a protective riding helmet and prescribed light clothing, 2 subjects were asked to perform the following movements 5 times:

- 1. Put on, adjust, and take off the garment.
- 2. While wearing the adjusted garment swing your arms out sideways and raise them to the level of the top of your head, swing them forward till your hands touch in front of you, then down and back till your hands are below your waist and behind you.
- 3. Adopt a racing crouch while sitting on a stool or other object, look down and look up.

Dimensions of Subject 1 (cm)		Dimensions from the garment (cm)		Dimensions of Subject 2 (cm)		Dimensions from the garment (cm)	
Chest girth	86	Chest girth	80-86	Chest girth	87	Chest girth	86-92
Under bust girth	/	Under bust girth	/	Under bust girth	/	Under bust girth	/
Waist girth	78	Waist girth	76-82	Waist girth	82	Waist girth	82-88
Over the shoulder length	81	Over the shoulder length	78-84	Over the shoulder length	85	Over the shoulder length	84-92

length	01	length	70 04	length	03	length	04 32
Question					Subject 1 Response	•	Result
Is donning, adjusting (possibly with assistance), and doffing the garment practical?				Yes	Yes	Pass	
Is pain caused by firm contact with the armhole, waist, or back of the neck during movements?				No	No	Pass	
Is there firm contact of the protective clothing on the front of the neck, or underside of the chin when seated and leaning forward?					No	No	Pass
Are any arm or head	movements	restricted in a w	ay that might endan	ger an average rider?	No	No	Pass
Is maximal inspiration (fully breathing in) restricted or does it require excessive effort or result in any pain?					No	No	Pass
Is coverage by the bo	ody protecto	r maintained af	er the movements?				
Around the torso					Yes	Yes	Pass
More than 25mm below the ribs anteriorly					Yes	Yes	Pass
Less than 30mm above iliac crests (top outer edge of hip bone) laterally					Yes	Yes	Pass
E and E <sub>1</sub> intersect with lower edge >50mm below iliac crests					Yes	Yes	Pass
Reaching the seventh cervical vertebra (the prominent bone at the base of the neck)					Yes	Yes	Pass
Less than 25mm from the top of the sternum (breastbone)					Yes	Yes	Pass
Covering more than 50% of the centre of the clavicle (collarbone)				Yes	Yes	Pass	

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BSI	PACT EN 13158:2018 use: 4.6						
Sample: Model #316							
		RESU	JLTS				
Conditions:	20°C / 65% rh	1					
Date of Testing:	18/01/2024						
Performance Level:	3						
Flat Impactor, Guard Ring at 0 mm, 150 mm Radius Dome Anvil			Narrow Bar, Guard Ring at 10 mm, 150 mm Radius Dome Anvil				
Im	pact Energy (J)	: 35	Impact Energy (J): 45				
Res	ult 1 2.491	kN (Zip)	Result 1	4.341	kN (Zip)		
Res	ult 2 4.044	kN	Result 2	1.533	kN		
Res	ult 3 3.107	kN	Result 3	2.000	kN		
Res	ult 4 3.738	kN	Result 4	1.003	kN		
Res	ult 5 1.932	kN (Zip)	Result 5	1.656	kN		
Res	ult 6 3.542	kN	Result 6	4.554	kN (Zip)		
N	lean 3.142	kN	Mean	2.515	kN		
Comment: Pass Comment: Pass					S		
<u>-</u>	·	REQUIR	EMENTS				
		Mean:	= : ::::				
		No single value s	hall exceed 6 kN				

UoM: ±2.58%

# **End of Report**

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k = 2, providing a level of confidence of approximately 95%. Unless otherwise specified all compliance and pass/fail statements are binary simple acceptance based on the tolerance interval and, with the exception of graded methods, a test uncertainty ratio greater (TUR) than 4:1. For graded methods the TUR will drop to as low as 0.5:1 when the tolerance limits are within a grade division of the upper scale limit. The Uncertainty budgets are stated for each Test method, these are for reference, and should be considered when results are on or close to Specification Limits / Requirements and in such cases it should be noted that the risk of false acceptance or rejection may be as high as 50%, for further information please refer to ILAC G8.

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