



This MotoCAP safety rating applies to:

Brand: Rev'It Model: Horizon 2 Type: Jacket - Textile Date purchased: 19 March 2019 Sizes tested: L and 2XL Gender: M & F Style: Tourer Test code: J19T11

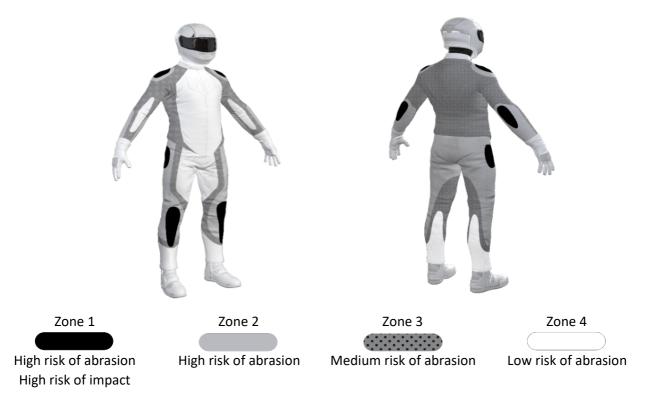
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	**	33.4
Abrasion	1/10	0.58
Burst	10/10	1227
Impact	8/10	60.8
MotoCAP Comfort Rating	+	0.146
Moisture Vapour Resistance		161.9
Thermal Resistance		0.395
Water resistance	1/10	29

This garment is fitted with impact protectors for the elbows and shoulders. Pockets are provided at the back for aftermarket impact protectors. There are vents in the chest and one across the upper back to allow airflow cooling in hot weather. The thermal comfort rating is based on tests of the breathability of the garment when all vents are closed. The thermal comfort of this product may be better when the vents can be opened.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.





Abrasion Resistance

The garment was tested for abrasion resistance in accordance with MotoCAP test protocols. The table below shows the test results for time to abrade through all layers of the materials. Calculated for each sample by Zone, type and area coverage of each material as a proportion of that Zone.

Details of materials used in garment:

Material A: High density woven fabric shell, water resistant layer and mesh inner liner

Material B: Woven fabric shell, water resistant layer and mesh inner liner

Zone	Coverage	Abrasion t	time for eac	ch test (sec	conds)			Average
	(%)	1	2	3	4	5	6	(seconds)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	100%	0.63	0.65	0.74	0.78	0.60	0.74	0.69 P
Zone 3 area (Medium abrasio	n risk)						
Material A	25%	0.63	0.65	0.74	0.78	0.60	0.74	0.69 P
Material B	75%	0.35	0.27	0.35	0.34	0.30	0.43	0.34 P
Zone 4 area (Low abrasion ris	k)						
Material A	15%	0.63	0.65	0.74	0.78	0.60	0.74	0.69 M
Material B	85%	0.35	0.27	0.35	0.34	0.30	0.43	0.34 P

Abrasion times are capped at a maximum of 10.00s.

The diagram below is a visual indication of the likely abrasion performance of the materials in each zone calculated from the data in the table above. The colour coding is based on the worst performing material in each zone.



		Good	Acceptable	Marginal	Poor
Determining Criteria					
High abrasion risk	Zone 1/2:	> 5.6	3.0 - 5.6	1.3 - 2.9	< 1.3
Medium abrasion risk	Zone 3:	> 2.5	1.8 - 2.5	0.8 - 1.7	< 0.8
Low abrasion risk	Zone 4:	>1.5	1.0 - 1.5	0.4 - 0.9	< 0.4



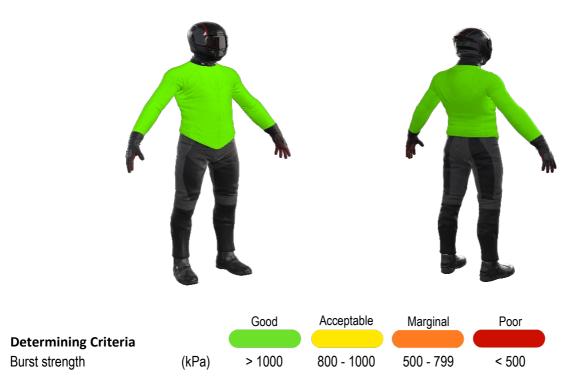
Burst Strength

The garment's burst strength was tested in accordance with MotoCAP test protocols. The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each zone.

Burst pressure (kPA)

Area	1	2	3	4	5	Average
Zones 1 & 2	1218	1078	1436	793	1518	1208 G
Zone EZ	1429	1621	1239	1289	1124	1340 G
Zones 3 & 4	1038	1064	1105	1123	859	1038 G

The diagram below illustrates the burst strength results in terms of the likely performance of the garment in an impact and is a pictorial representation of the data from the table above.





Impact Protection

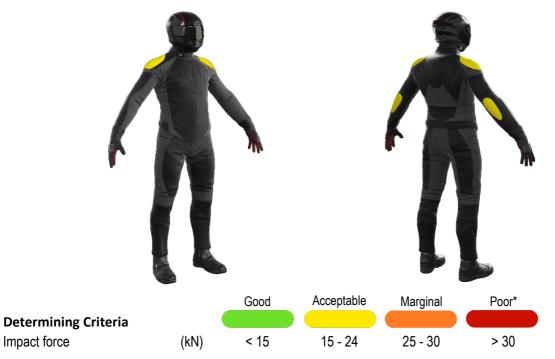
The garment was tested for impact protection and coverage in accordance with MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder
Average force (kN)	18.9	A	18.5 A
Maximum force (kN)	19.5	Α	19.0 A
Coverage of zone 1 area	150%		110%
Coverage of zone after displacement	100%		100%

Individual test results

Impact force (kN)	Elbow			Shoulder		
Strike location	A	В	С	A	В	С
Impact Protector 1	19.3	19.5	19.2	16.4	19.0	18.4
Impact Protector 2	19.2	19.4	19.3	18.3	18.8	18.5
Impact Protector 3	18.5	18.4	17.7	18.8	18.9	19.0

The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table above. The colour coding is based on the worst performing score for average or maximium force for each impact zone.



^{*} Poor may also indicate that no impact protector, or impact protector pocket is present in the garment Areas shaded black are not considered in the impact protection ratings.



Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

	1	2	Average
Moisture Vapour Resistance - Ret	163.9	160.0	161.9
(kPam²/W)			
	1	2	Average
Thermal Resistance - R _{ct}	0.383	0.406	0.395
(Km²/W)			

Water spray and rain resistance

This garment is advertised as water-resistant, and so has been tested for water spray and rain resistance according to the MotoCAP test protocols. The table below shows the water absorbed (ml) and the wetting proportion (%) of the garment and undergarments due to water absorption.

	Water absorbe	ed by garment	Water absorbe	ed by underwear
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Garment 1	248	18%	48	17%
Garment 2	180	13%	113	41%
Average	214	16%	81	29%

Location of wetting:

Visible wetting to the cotton underwear worn under the motorcycle water resistant garment was present at the cuffs of the sleeves and on the chest.