


**This MotoCAP safety rating applies to:**

**Brand:** DriRider  
**Model:** Rapid  
**Type:** Pants - Denim  
**Date purchased:** 4 July 2018  
**Sizes tested:** 36  
**Gender:** M  
**Style:** All Purpose  
**Test code:** P18D04

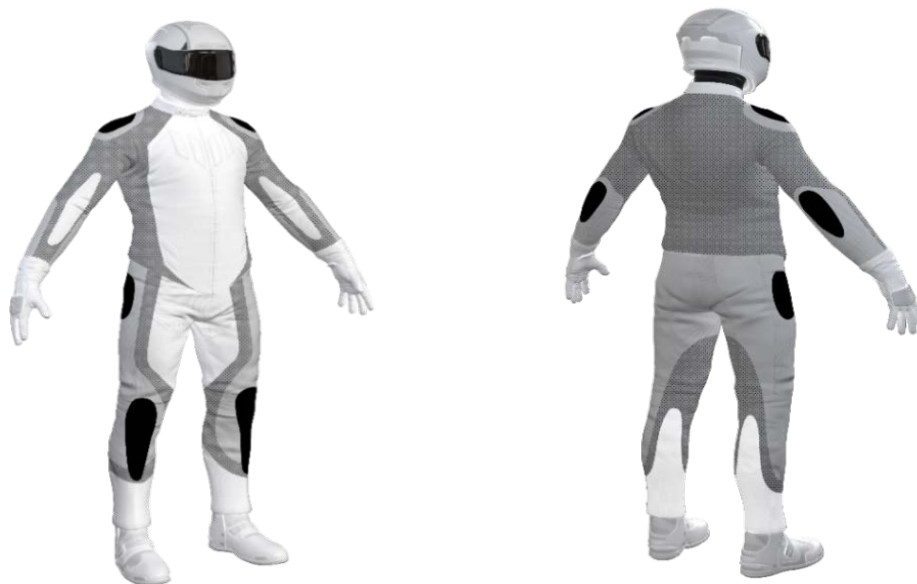
**Test Results Summary:**


	Rating	Result
MotoCAP Protection Rating	★★	33.2
Abrasion	1/10	0.88
Burst	8/10	852
Impact	5/10	39.2
MotoCAP Comfort Rating	★★★	0.599
Moisture Vapour Resistance		15.9
Thermal Resistance		0.159
Water Resistance	N/A	


This garment is fitted with impact protectors for the knees and hips.


**Jacket and Pants - Crash Impact Risk Zones**


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



**Zone 1**  
  
 High risk of abrasion  
 High risk of impact

**Zone 2**  
  
 High risk of abrasion

**Zone 3**  
  
 Medium risk of abrasion

**Zone 4**  
  
 Low risk of abrasion

### Abrasion Resistance

The garment was tested for abrasion resistance following the 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: Single layer of denim outer plus kevlar knitted fabric inner liner  
 Material B: Single layer of denim

Zone	Coverage (%)	Abrasion time for each test (s)						Average (s)	
		1	2	3	4	5	6		
<b>Zone 1 and 2 areas (High abrasion risk)</b>									
Material A	100%	1.16	1.19	1.87	1.15	1.12	1.12	1.27	<span style="background-color: red; color: white; padding: 2px;">P</span>
<b>Zone 3 area (Medium abrasion risk)</b>									
Material B	100%	0.29	0.30	0.22	0.38	0.31	0.24	0.29	<span style="background-color: red; color: white; padding: 2px;">P</span>
<b>Zone 4 area (Low abrasion risk)</b>									
Material B	100%	0.29	0.30	0.22	0.38	0.31	0.24	0.29	<span style="background-color: red; color: white; padding: 2px;">P</span>

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.



<b>Determining Criteria</b>		Good	Acceptable	Marginal	Poor
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 following the 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)

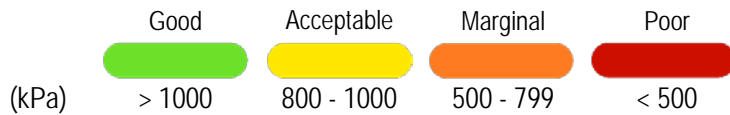
Area	1	2	3	4	5	Average	
Zones 1 & 2	1234	1038	1313	577	923	1017	<b>G</b>
Zone EZ	694	861	608	887	843	778	<b>M</b>
Zones 3 & 4	722	610	640	643	728	669	<b>M</b>

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.



#### Determining Criteria

Burst strength



### Impact Protection

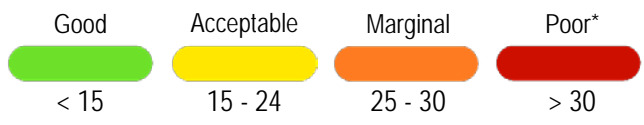
The garment was tested for impact protection and coverage following the MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewton (kN) and their area of coverage in percentage (%) within the Zone.

Impact protector type	Knee		Hip	
Average force (kN)	17.5	A	18.2	A
Maximum force (kN)	20.4	A	20.7	A
Coverage of zone 1 area	95%		98%	
Coverage of zone after displacement	60%		90%	

#### Individual test results

Impact force (kN)	Knee			Hip		
	A	B	C	A	B	C
Impact Protector 1	16.5	15.8	18.5	18.3	19.2	20.7
Impact Protector 2	17.2	15.4	20.4	18.7	19	20.7
Impact Protector 3	17.7	15.9	19.7	15.5	16.2	15.9

The diagram below is a visual indication of the likely impact performance of each impact protector calculated from the data in the table above.



#### Determining Criteria

Burst strength (kN) < 15      15 - 24      25 - 30      > 30

\* Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

### 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 - $R_{et}$ (kPam <sup>2</sup> /W)	15.1	16.7	15.9
	1	2	Average
Thermal Resistance - $R_{ct}$ (Km <sup>2</sup> /W)	0.159	0.158	0.159

### Water spray and rain resistance

This garment has not been advertised as water resistant so has not been tested for water spray and rain resistance.