



This MotoCAP safety rating applies to:

Brand Harley Davidson

FXRG Triple Vent Wtr Prf Model

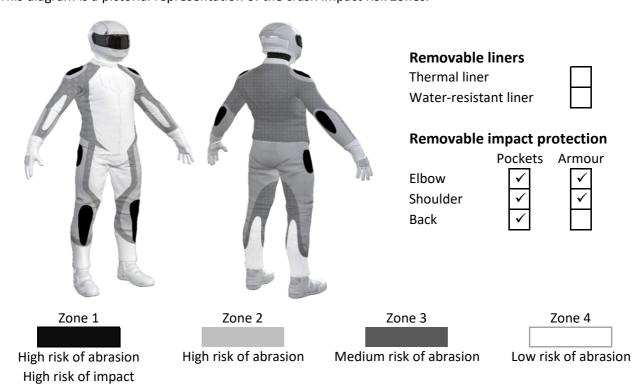
Jacket - Leather Type Date purchased 6 July 2020 Sizes tested XL and 2XL Test garment gender Male Style Cruiser RRP \$1,025.31

Test Results Summary Rating Score MotoCAP Protection Rating 26.7 \star 2/10 1.52 Abrasion 9/10 925 Burst 5/10 33.0 **Impact** MotoCAP Breathability Rating 0.116 1 Moisture Vapour Resistance 143.4 Thermal Resistance 0.277 1/10 33.5 Water resistance

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are zipped vents in the sides and lower arms to allow controlled airflow movement through the garment. The breathability rating is based on tests of the garment's materials when all vents are closed. The breathability 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 jacket was tested for abrasion resistance in accordance with MotoCAP test protocols. 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 below. The colour coding is based on the worst performing material in each zone.



Abrasion Resistance Performance

Abrasion rating	2/10
Abrasion score	1.52

Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zones 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

Individual Abrasion Resistance Results: - 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. Abrasion times are capped at a maximum of 10.00s.

Abrasion time for each test (seconds)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	1.55	1.90	1.41	1.23	1.67	1.33	1.52	M
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	1.55	1.90	1.41	1.23	1.67	1.33	1.52	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	1.55	1.90	1.41	1.23	1.67	1.33	1.52	G

Details of materials used in jacket

Material A Leather shell, water-resistant layer and mesh inner liner



Burst Strength

The jacket was tested for burst strength in accordance with MotoCAP test protocols. 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 below.



Burst Strength Performance

Burst rating	9/10
Burst score	925

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

Individual Burst Strength Results: - 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 for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	829	973	853	970	868	920.7	903	Α
Zones 3 & 4	1945	724	674	973	1132	638.3	1014	G



Impact Protection

The jacket was tested for impact protection and coverage in accordance with MotoCAP test protocols. The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table below. The colour coding is based on the worst performing score for average or maximium force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance
Impact rating 5/10
Impact score 33.0

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor*
Impact force	(kN)	< 15	15 - 24	25 - 30	> 30

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

Impact Protector Results: - The table below shows the average and maximum force transmitted through each impact protector type in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder
Average force (kN)	23.5	A	23.6 A
Maximum force (kN)	24.7	A	24.8 A
Coverage of Zone 1 area	105%	<u> </u>	90%
Coverage of Zone after displacement	90%		80%

Individual Impact Protector Results: - The table below shows the test results for each strike on individual impact protectors in kilonewtons (kN) and the position of the strike. Individual strike results are capped at a maximum of 50kN.

Force transfer for each impact strike (kN)

Impact protector type	Elbow			Shoulder		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	24.7	23.8	23.3	23.6	24.1	22.3
Impact Protector 2	23.4	23.6	23.6	23.3	23.8	23.6
Impact Protector 3	23.4	23.5	22.4	23.5	23.3	24.8



Breathability

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

Without removable liners	With water-resistant liner			
Breathability rating	Breat	hability rating	N/A	
Breathability score 0.116	Breat	hability score	N/A	
Moisture Vapour Resistance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners	152.7	134.1	143.4	
With water-resistant liner	N/A	N/A	N/A	
Thermal Resistance - R _{ct} (K.m²/W)	1	2	Average	
Without removable liners	0.273	0.282	0.277	
With water-resistant liner	N/A	N/A	N/A	

Water spray and rain resistance

This jacket 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 (%) by weight of the garment and undergarments due to water absorption.

	Water absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	191	7%	77	26%	
Jacket 2	177	7%	116	41%	
Average	184	7%	96	34%	

Location of wetting

There was major wetting to the cotton underwear present at the neck and chest for both jackets tested.

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Model FXRG Triple Vent Wtr Prf

Type Jacket - Leather Date purchased 6 July 2020

Tested by AMCAF, Deakin University

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