



This MotoCAP safety rating applies to:

Brand Harley Davidson Model **Dauntless Convertible** Type Jacket - Leather Date purchased 17 May 2021 Sizes tested XL and 2XL Male Test garment gender Style Cruiser RRP \$999.98

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	22.0
Abrasion	2/10	1.71
Burst	10/10	1346
Impact	1/10	0.0
MotoCAP Breathability Rating	*	0.212
Moisture Vapour Resistance	-	71.1
Thermal Resistance	-	0.251
Water resistance	N/A	N/A

Pockets are provided at the shoulders and elbows for fitting aftermarket impact protectors. Adding elbow and shoulder impact protectors would improve the protection levels of this garment. There are zipped vents in the chest, sides and back 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. This garment has removable sleeves. All test results in this report are for the garment with its sleeves installed.

Jacket and Pants - Crash Impact Risk Zones

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

		Removable Thermal line Water-resists Removable Elbow Shoulder Back	r 🔲
Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion High risk of impact	High risk of abrasion	Medium risk of abrasion	Low risk of abrasion



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	1.71

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)

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	50%	3.04	2.43	5.65	5.95	4.33	6.99	4.73	Α
Material B	50%	1.67	1.59	1.50	2.51	1.96	1.57	1.80	М
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	1.67	1.59	1.50	2.51	1.96	1.57	1.80	A
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	1.67	1.59	1.50	2.51	1.96	1.57	1.80	G

Details of materials used in jacket

Material A	Leather shell,	foam lav	ver and	fabric inner	·liner

Material B Leather shell with 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 Strengtl	h Performance
Burst rating	10/10

Burst score

1346

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	1804	1116	1637	883	1607	1440	1415	G
Zones 3 & 4	678	625	1339	1494	995	1307	1073	G



Impact Protection

This jacket was not tested for impact protection as impact protectors were not provided with the garment. 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 maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance

Impact rating 1/10 Impact score 0.0

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)	P	P
Maximum force (kN)	P	P
Coverage of Zone 1 area	0%	0%
Coverage of Zone after displacement	0%	0%

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)

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Impact protector type	Elbow	No impact protector present		No impact protector present		Shoulder	No impact prof	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge		
Impact Protector 1								
Impact Protector 2								

Impact Protector 3



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 0.212	<u>)</u>	Breathability score N/		N/A
Moisture Vapour Resistance - R _{et} (kPa.m²/W)		1	2	Average
Without removable liners		71.6	70.5	71.1
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R _{ct} (K.m²/W)		1	2	Average
Without removable liners		0.249	0.253	0.251
With water-resistant liner		N/A	N/A	N/A

Water spray and rain resistance

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

Assessment Details.

Brand Harley Davidson
Model Dauntless Convertible
Type Jacket - Leather
Date purchased 17 May 2021

Tested by AMCAF, Deakin University

Garment test reference J20L23
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