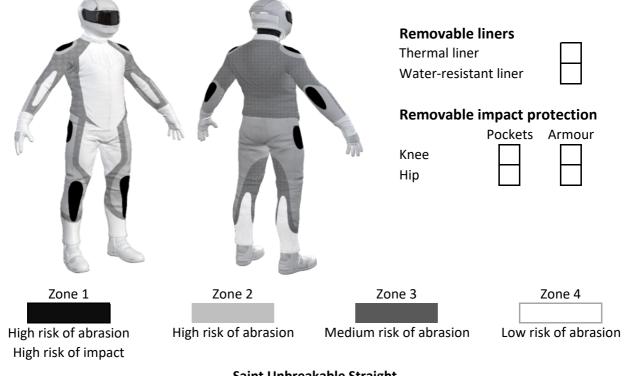


This garment is not fitted with impact protectors. There are no pockets provided at the knees or hips for fitting aftermarket impact protectors. There are no vents to allow airflow movement through the garment.

### Jacket and Pants - Crash Impact Risk Zones

MOTOCAP

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



Saint Unbreakable Straight Denim Pants



#### **Abrasion Resistance**

These pants were 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	1/10
Abrasion score	0.93

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.

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	1.01	1.05	0.66	1.02	0.86	0.99	0.93
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	1.01	1.05	0.66	1.02	0.86	0.99	0.93
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	ا Average
Material A	100%	1.01	1.05	0.66	1.02	0.86	0.99	0.93

# Details of materials used in jacket

Material A Denim fabric shell



## **Burst Strength**

These pants were 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	965			

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.

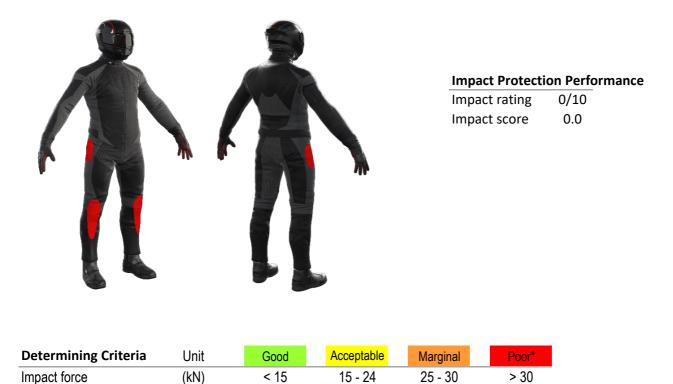
#### Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	931	561	1421	643	1632	992.6	1030	G
Zones 3 & 4	1319	1151	682	367	429	285.1	706	Μ



#### **Impact Protection**

These pants were 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.



\* 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	Knee	Нір
Average force (kN)	Р	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)

Impact protector type	Knee	No impact prot	tector present	Нір	No impact pro	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1						
Impact Protector 2						
Impact Protector 3						



#### Breathability

These pants were 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		Witł	n water-resista	ant liner
Breathability rating	***	Brea	thability rating	N/A
Breathability score	0.481	Brea	thability score	N/A
Moisture Vapour Resis	1	2	Average	
Without removable liner	S	22.1	23.2	22.7
With water-resistant line	N/A	N/A	N/A	
Thermal Resistance - R <sub>ct</sub> (K.m²/W)		1	2	Average
Without removable liner	S	0.168	0.195	0.182
With water-resistant line	er	N/A	N/A	N/A

#### Water spray and rain resistance

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

SAINT
Unbreakable Straight
Pants - Denim
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