

# Cycle Helmet Safety Test Results 2019, 2020 & 2021

The following table shows the results for the 47 adult cycle helmets which were tested by Folksam Insurance Group in 2019, 2020 and 2021 and which are available for purchase in the UK. All of these cycle helmets underwent tests that are additional to those required under the minimum safety standard, EN 1078, which needs to be met for any bicycle helmet sold in the EU to obtain the CE safety mark. The extended tests carried out by Folksam included both direct impact

(shock absorption test) and oblique impact tests (oblique impact inflicts rotational forces on the head and can result in consequent concussion injury to the brain). All of the 'Recommended' helmets incorporate technology for protection against rotational forces in some form. *Please note that the results are in relation to the average performance for that year's test round and therefore are not necessarily directly comparable between years.*

Helmets	Year tested	Grade	Approx price (£)
Bell Super Air R MIPS	2020	4	£275
Bontrager Specter WaveCel	2020	4	£130
Giro Aether MIPS	2019	4	£189
Hövdning Hövdning 3.0	2020	4	£250
Scott Arx Plus	2021	4	£80
Scott Vivo Plus MIPS	2020	4	£85
Specialized Align II	2021	4	£45
Specialized Propero 3 Angi MIPS	2019	4	£100
Specialized S-Works Prevail II W/ ANGI MIPS	2020	4	£170
Bell Trace MIPS	2020	3	£65
Bontrager Solstice MIPS	2020	3	£35
Fox Speedframe Pro ELV	2021	3	£139
Giro Helios Spherical	2021	3	£230
Lazer Armor	2021	3	£75
Lazer Blade MIPS	2020	3	£85
Lazer Gustav MIPS	2019	3	£32
Oakley ARO3 MIPS	2019	3	£114
Smith Network	2021	3	£140
Abus Hyban 2	2020	2	£40
Abus Pedelec 2.0	2019	2	£120
Abus Pedelec 2.0 MIPS	2021	2	£130
Bell Sixer	2021	2	£150
Bontrager Charge WaveCel	2019	2	£105
Bontrager Starvos	2021	2	£100
Bontager XXX WaveCel	2021	2	£200
Closca Design Fuga	2020	2	£100
Giro Agilis MIPS	2020	2	£90



Helmets	Year tested	Grade	Approx price (£)
Giro Caden MIPS	2020	2	£80
Giro QUARTER FS MIPS	2020	2	£45
Giro Syntax MIPS	2019	2	£100
POC Axion Spin	2020	2	£125
POC Kortal	2021	2	£220
POC Omne Air SPIN	2019	2	£140
POC TECTAL Spin	2020	2	£170
Rockrider MTB ST 500	2020	2	£18
Scott Centric Plus	2021	2	£150
Specialized Ambush ANGI MIPS	2020	2	£130
Sweet Protection Outrider MIPS	2020	2	£140
Van Rysel RoadR 900	2020	2	£40
6D ATB-1T EVO	2019	1	£136
Bell Crest Universal	2020	1	£30
Giro Caden	2020	1	£60
Halfords Commuter Helmet	2020	1	£30
Kask Mojito 3 WG11	2021	1	£130
Lazer Urbanize MIPS	2021	1	£100
Oxford Hurricane F15	2019	1	£20
SMITH Convoy MIPS	2020	1	£65
Specialized Chamonix	2021	1	£70

## FOLKSAM GRADING SYSTEM

### GRADE 4:

The helmet is more than 15% better than the average in the test round – both for direct and oblique impact. It provides good protection and is a 'Recommended' helmet.

### GRADE 3:

The helmet is more than 15% better than the average in the test round, but it is either the direct or oblique impact that has better values than the average, not both. A helmet with a Grade 3 also provides good protection.

### GRADE 2:

The helmet has received an average test result.

### GRADE 1:

The helmet is more than 15% worse than the average in the test round.

### Scott Arx Plus



**RECOMMENDED**

### Specialized Align II



**RECOMMENDED**