

TEST REPORT

Hardline Laboratory

Report No. : THA0127/2025

Page : 1 of 6

Date : NOV. 03, 2025

Mai Bikes

Wilhelmsdorfer Str. 6, 33604 Bielefeld, Germany

The following merchandise was submitted and identified by the applicant as:

Product Description: Mai Versa CGP frameset, Gravel Bike

Country of Origin: China

Sample Quantity: 2 carbon frames

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Requested: Clauses 4.8.2, 4.8.3, 4.8.4, 4.8.5, 4.8.6 and 4.8.7 of ISO 4210-2:2023 Cycles - Safety requirements for bicycles - Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles.

Test Method: Clauses 4.1, 4.2, 4.3, 4.4, 4.5 and 4.6 of ISO 4210-6:2023 Cycles - Safety requirements for bicycles - Part 6: Frame and fork test methods.

Bicycle type: City and trekking Young adult Mountain Racing

Test Result: --See following sheet(s)--

Date of Receipt: OCT. 22, 2025

Testing Period: OCT. 23, 2025 ~ OCT. 31, 2025

Signed for and on behalf of
SGS Taiwan Ltd.



Chihhao Lien
Asst. Manager



Testing Site: No.9, 14th Road, Taichung Industrial Park, Taichung City, Taiwan

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

TEST REPORT

Hardline Laboratory

Report No. : THA0127/2025

Page : 2 of 6

Test Result:

ISO 4210-2:2023 Cycles - Safety requirements for bicycles - Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles.

Bicycle type: City and trekking Young adult Mountain Racing

Clauses	Test Item	Sample No. / Test Sequence	Result	Remark
4.8	Frames			
4.8.2	Frame - Impact test (falling mass)	#1 / 6	Pass	Annex 1
4.8.3	Frame and front fork assembly - Impact test (falling frame)	#1 / 7	Pass	Annex 2
4.8.4	Frame – Fatigue test with pedalling forces	#1 / 1	Pass	Annex 3
4.8.5	Frame – Fatigue test with horizontal forces	#1 / 2	Pass	Annex 4
4.8.6	Frame - Fatigue test with a vertical force	#1 / 3	Pass	Annex 5
4.8.7	Rear brake mount tests			
	- Static rear brake torque test	#1 / 5	Pass	Annex 6
	- Rear brake mount fatigue test	#1 / 4	Pass	Annex 7

- Note:**
1. Sample information: Material (Carbon), Frame size (480 mm), Mass (#1: 1,329 g).
 2. The rigid fork required for the test was provided by SGS Taiwan.
 3. The rigid fork is 400 mm in length with a 50 mm offset.
 4. Wheel diameter: 700C × 50C.

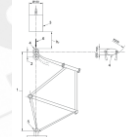
TEST REPORT

Hardline Laboratory

Report No. : THA0127/2025

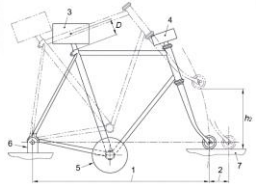
Page : 3 of 6

Annex 1:

Frame - Impact test (falling mass)						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 4.1 (ISO 4210-6:2023) 	Drop height, h_1 (mm)	180	180	360	212	1. Permanent set: 4.1 mm. 2. No visible cracks were observed on the sample after testing.
	Mass of Striker (kg)	22.5	22.5	22.5	22.5	

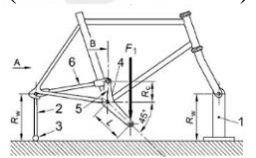
Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

Annex 2:

Frame and front fork assembly - Impact test (falling frame)						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 4.2 (ISO 4210-6:2023) 	Seat-post, M_1 (kg)	50	40	30	30	1. Permanent set: 4.5 mm. 2. No visible cracks were observed on the sample after testing.
	Steering head, M_2 (kg)	10	10	10	10	
	Bottom bracket, M_3 (kg)	30	20	50	50	
	Drop height, h_2 (mm)	200	200	300	200	

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

Annex 3:

Frame – Fatigue test with pedalling forces						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 4.3 (ISO 4210-6:2023) 	Force, F_1 (N)	1,000	1,000	1,200	1,100	1. No visible cracks were observed on the sample after testing. 2. The peak deflection was no more than 20% of the initial value.
	Test cycles	100,000	100,000	100,000	100,000	
	Frequency (Hz)	3				

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.


TEST REPORT

Hardline Laboratory

Report No. : THA0127/2025

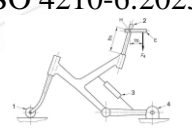
Page : 4 of 6

Annex 4:

Frame – Fatigue test with horizontal forces						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 4.4 (ISO 4210-6:2023) 	Forward force, F_2 (N)	450	450	1,200	600	1. No visible cracks were observed on the sample after testing. 2. The peak deflection was no more than 20% of the initial value.
	Rearward force, F_3 (N)	450	450	600	600	
	Test cycles, C_1	100,000	100,000	50,000	100,000	
	Frequency (Hz)	3				

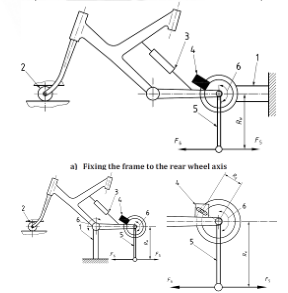
Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

Annex 5:

Frame - Fatigue test with a vertical force						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 4.5 (ISO 4210-6:2023) 	Force, F_4 (N)	1,000	500	1,200	1,200	1. No visible cracks were observed on the sample after testing. 2. The peak deflection was no more than 20% of the initial value.
	Test cycles	50,000	50,000	50,000	50,000	
	Frequency (Hz)	3				

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

Annex 6:

Rear brake mount tests - Static rear brake torque test						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 4.6.2 (ISO 4210-6:2023) 	Rearward force, F_5 (N)	700	700	700	700	No visible cracks were observed on the sample after testing.
	Forward force, F_6 (N)	300	300	300	300	
	Arm length, R_w (mm)	365				
	Apply a rearward force of 700 N to the link arm against the direction of travel. Maintain this force for 1 min, then reduce the force to 0 and apply a force of 300 N in direction of travel, again maintain this force for 1 min and release the force.					

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

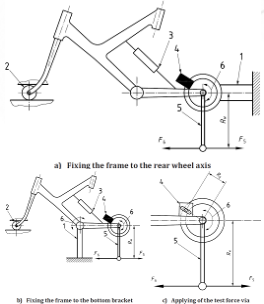
TEST REPORT

Hardline Laboratory

Report No. : THA0127/2025

Page : 5 of 6

Annex 7:

Rear brake mount tests - Rear brake mount fatigue test						
Test Method	Bicycle type	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input type="checkbox"/> M	<input checked="" type="checkbox"/> R	Result
	Test condition					
Clause 4.6.3 (ISO 4210-6:2023) 	Rearward force, F_5 (N)	500	300	500	400	No visible cracks were observed on the sample after testing.
	Forward force, F_6 (N)	50	50	200	50	
	Test cycles	20,000	20,000	20,000	20,000	
	Frequency (Hz)	3				
	Arm length, R_w (mm)	365				

Note: C= City/Trekking Bicycle; Y= Young Adult Bicycle; M= Mountain Bicycle; R= Racing Bicycle.

- * The content of this report is invalid if it is not presented as the entire report.
- * The decision rule of the statements of conformity is following the ILAC G8:09/2019 by using the simple acceptance decision rule.

TEST REPORT

Hardline Laboratory

Report No. : THA0127/2025

Page : 6 of 6

– Picture(s) –



Photo "A" Appearance of sample



Photo "B" Appearance of sample

--- End of Report ---

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com.tw/terms-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com.tw/terms-of-service>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.