

Mechanical & Hardgoods Laboratory

Report No.: TH30188/2017

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Date: MAR. 16, 2017

SR SUNTOUR INC.

No.7, Singye Rd., Fusing Township, Changhua County 506, Taiwan (R.O.C.)

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

Product Description: SEAT POST

Style/Item No.: SP12 NCX27.2*400 Sample Quantity: 1 pc of seatpost

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

Test Requested: Refer to Clause 4.16.6.1.2 and Clause 4.16.6.2.2 of ISO 4210-2:2015 Cycles —

Safety requirements for bicycles — Part 2: Requirements for city and trekking,

young adult, mountain and racing bicycles.

(As applicant's requirement, not considering the plastic buffer)

<u>Test Method:</u> According to Clause 4.5.2 and Clause 4.5.3 of ISO 4210-9:2014 Cycles — Safety

requirements for bicycles — Part 9: Saddles and seat-post test methods.

Sequence of Testing: Clause 4.5.2, Clause 4.5.3 of ISO 4210-9

Bicycle type:

City and trekking
Young adult
Mountain
Racing

<u>Test Result:</u> --See following sheet(s)--

Date of Receipt: MAR. 10, 2017

Testing Period: MAR. 14, 2017 ~ MAR. 15, 2017

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Signed for and on behalf SGS Taiwan Ltd.

Kaini Chen Team Leader

Testing Place: No. 9, 14th Rd., Taichung Ind. Park, Taichung City 40755, Taiwan

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Test Result:

City and trekking Young adult Bicycle type: Mountain Racing

Clauses: Result

4.16.6 (ISO 4210-2) Seat-post — Fatigue test

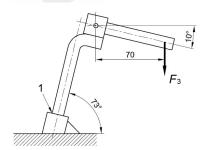
4.16.6.1 (ISO 4210-2) Requirement for stage 1

Pass 4.16.6.1.2 (ISO 4210-2) Seat-post with suspension system

When tested by the method described in ISO 4210-9:2014, 4.5.2, there shall be no visible cracks or fractures in the seat-post, or any bolt failure. The design shall be such that in the event of failure of the suspension system, the two main parts do not separate, nor does the upper part (i.e. the part to which the saddle would be attached) become free to swivel in the lower part.

4.5.2 (ISO 4210-9) Test method for stage 1 (fatigue test)

Figure:



Actual Finding:

1100000111100116					
Test clause	Test conditions			Test Result	
	Force	Frequency	Cycles	(Cycles)	
Clause 4.5.2 (ISO 4210-9)	1,200 N(F ₃)	2.5 Hz	100,000	100,000	
Remark	There was no visible crack on the sample after testing.				

- **Note:** 1. Information of Sample: The weight of seatpost is 838 g.
 - 2. The tightening torque of the screw on clamp is 30 Nm.
 - 3. The minimum insertion depth is 67 mm.
 - 4. Diameter of seat-pillar is 27.2 mm.
 - 5. The tightening torque of the screw on fixture is 6 Nm.
 - 6. As applicant's requirement, not considering the plastic buffer.

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Result

Pass

Test Result:

Clauses:

4.16.6 (ISO 4210-2) Seat-post — Fatigue test

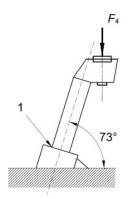
4.16.6.2 (ISO 4210-2) Requirement for stage 2

4.16.6.2.2 (ISO 4210-2) Seat-post with suspension system

When tested by the method described in ISO 4210-9:2014, 4.5.3, there shall be no fractures. The design shall be such that in the event of failure of the suspension system, the two main parts do not separate, nor does the upper part (i.e. the part to which the saddle would be attached) become free to swivel in the lower part.

4.5.3 (ISO 4210-9) Test method for stage 2 (static strength test)

Figure:



Actual Finding:

Test clause	Test Force	Test Result			
Clause 4.5.3 (ISO 4210-9)	2,000 N(F ₄)	There was no visible crack on the sample after testing.			

Note

- 1. Information of Sample: The weight of seatpost is 838 g.
- 2. The tightening torque of the screw on clamp is 30 Nm.
- 3. The minimum insertion depth is 67 mm.
- 4. Diameter of seat-pillar is 27.2 mm.
- 5. The tightening torque of the screw on fixture is 6 Nm.
- 6. As applicant's requirement, not considering the plastic buffer.

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- Picture(s) -



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