

## TEST REPORT

Mechanical & Hardgoods Laboratory

Report No. : TH40236/2017

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Date : MAY 05, 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.: SP17 NCX30.9\*350  
Sample Quantity: 1 pc of seatpost

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

Test Requested: For compliance with 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.

Test Method: 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

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

Date of Receipt: APR. 28, 2017

Testing Period: MAY 02, 2017 ~ MAY 03, 2017

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Signed for and on behalf of  
 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:**Bicycle type: ☐ City and trekking ☐ Young adult ☒ Mountain ☐ Racing**Clauses:****Result****4.16.6 (ISO 4210-2) Seat-post — Fatigue test**

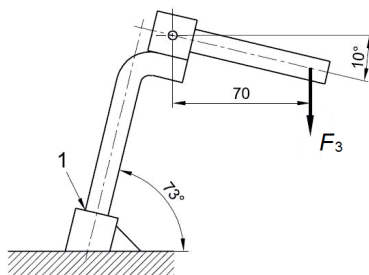
Pass

**4.16.6.1 (ISO 4210-2) Requirement for stage 1****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:**

Test clause	Test conditions			Test Result (Cycles)
	Force	Frequency	Cycles	
Clause 4.5.2 (ISO 4210-9)	1,200 N(F <sub>3</sub> )	2 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 808 g.
  2. The tightening torque of the screw on clamp is 30 Nm.
  3. The minimum insertion depth is 65 mm.
  4. Diameter of seat-pillar is 30.9 mm.
  5. As applicant's requirement, the suspension system adjusted to give maximum resistance. (See Photo "B")
  6. The tightening torque of the screw on fixture is 6 Nm.

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### Test Result:

Bicycle type: ☐ City and trekking ☐ Young adult ☒ Mountain ☐ Racing

### 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**

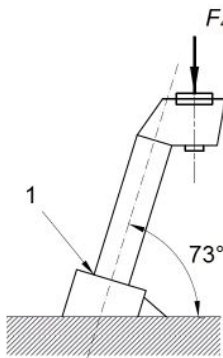
When tested by the method described in ISO 4210-9:2014, 4.5.3, there shall be no fractures. The design shall be such that in the event of failure of the suspension system, the two main parts do not separate, nor does the upper part (i.e. the part to which the saddle would be attached) become free to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

### Result

Pass

### 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 <sub>4</sub> )	There was no visible crack on the sample after testing.

- Note:**
1. Information of Sample: The weight of seatpost is 808 g.
  2. The tightening torque of the screw on clamp is 30 Nm.
  3. The minimum insertion depth is 65 mm.
  4. Diameter of seat-pillar is 30.9 mm.
  5. As applicant's requirement, the suspension system adjusted to give maximum resistance. (See Photo "B")
  6. The tightening torque of the screw on fixture is 6 Nm.

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### – Picture(s) –



Photo "A" Appearance of sample



Photo "B" Appearance of sample



Photo "C" Appearance of sample



Photo "D" Maximum resistance

--- End of Report ---