KSPO
Korea Sports Promotion Foundation

TEST REPORT

1. **Test No.** : KSPO-R-2017-00037
2. **Client**
   - Company : AVIIAV-RB international
   - Address : 57, Seunghak-ro 506beon-gil, Seo-gu, Incheon, Republic of Korea
   - Received : Mar. 02, 2017
3. **Test period** : Mar. 03, 2017 ~ Mar. 07, 2017
4. **Test purpose** : QC
5. **Sample** : Bicycle wheel(front)

■ Test Sample(Spec.)

Model name	Wheel Size	Material(rim)	Coating	rim type	Wheel type
AEROV35 TUBULAR	700C	CFRP	N	Tubular	Road

■ Test method

- UCI cycling regulations 1.3.018
- ISO 4210-2(2015) Requirements for city and trekking, young adult, mountain and racing bicycles
  4.10 Wheels and wheel/tyre assembly
  4.10.1 Wheels/tyre assembly-Concentricity tolerance and lateral tolerance
- ISO 4210-7(2014) Wheels and rims test methods
  4.Test methods
  4.1 Rotational accuracy

■ Test result : see the next page

■ Photos : see the next page

End.

※ This test report relates to the samples supplied by the named client for testing and to the specific assessments carried out. The issuance of this certificate does not exonerate buyers or sellers from exercising their rights and discharging their liabilities under a contract of sale.

Tested by Woo Sup, Han	Approved by Hyung Suk, Kim

Mar. 10, 2017

KOREA INSTITUTE OF SPORT SCIENCE

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Test No. : KSPO-R-2017-00037

■ Test result

Item	Test type	Unit	**Result**	Requirement	**Remarks**
Bicycle wheel (front)	weight	g	**507.69**	-	**-**
	the number of spokes	ea	**20**	at least 12	**-**
	maximum section length of spoke	mm	**2.18**	less than 10	**-**
	Rim height	mm	**35**	-	**-**
	Rotational accuracy (radial run out)	mm	**0.27**	less than 0.7	ISO(pre impact)
	Rotational accuracy (lateral run out)	mm	**0.14**	less than 0.7	ISO(pre impact)
	Vertical drop	J	**40.22**	40±5%	-
	High speed analysis(2,000 fps)	-	**no crack and delamination**	no crack and delamination	-
	Rotational accuracy (radial run out)	mm	**0.27**	less than 1.0	UCI(post impact)
	Rotational accuracy (lateral run out)	mm	**0.19**	less than 1.0	UCI(post impact)

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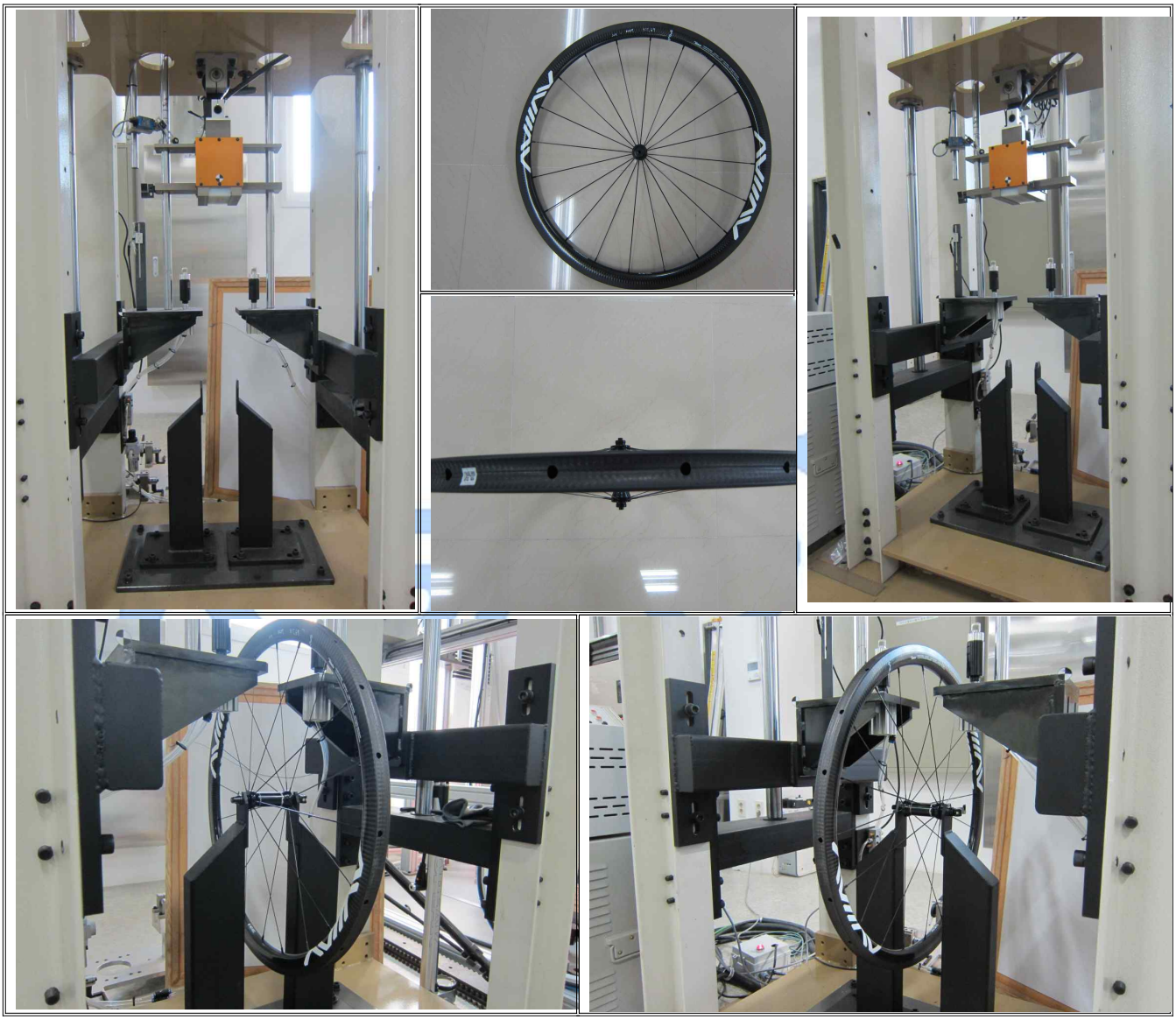
Test No. : KSPO-R-2017-00037

■ Photos



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TEST REPORT

1. Test No. : KSPO-R-2016-00183
2. Customer : AVIIAV-RB international
3. Address : 57, Seunghak-ro 506beon-gil, Seo-gu, Incheon, Republic of Korea
4. Sample : Bicycle wheel(front)
5. Received date : Nov. 20, 2016
6. Test period : Nov. 20, 2016 ~ Jan. 03, 2017

- Test result -

■ Test samples(Spec.)

Model name	Wheel size	Material(rim)	Coating	rim type	wheel type
AEROV50 V2	700C	CFRP	N	Tubular	Road

■ Test method

- UCI cycling regulations 1.3.018
- ISO 4210-2(2015) Requirements for cicy and trekking, young adult, mountain and racing bicycles

  4.10 Wheels and wheel/tyre assembly

  4.10.1 Wheels/tyre assembly-Concentricity tolerance and lateral tolerance
- ISO 4210-7(2014) Wheels and rims test methods

  4.Test methods

  4.1 Rotational accuracy

■ Test result : see next page

■ Photos : see next page

End.

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Tested by Woo Sup, Han

Approved by Hyung Suk, Kim

Jan. 10th, 2017

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- Test result -

Item	Test type	Unit	**Result**	Requirement	**Remarks**
Bicycle wheel (front)	weight	g	**601.17**	-	-
	the number of spokes	ea	**20**	at least 12	-
	maximum section length of spoke	mm	**2.17**	less than 10	-
	Rim height	mm	**50**	-	-
	Rotational accuracy (radial run out)	mm	**0.21**	less than 0.7	ISO(pre impact)
	Rotational accuracy (lateral run out)	mm	**0.20**	less than 0.7	ISO(pre impact)
	Vertical drop	J	**40.22**	40±5%	no crack and delamination
	High speed analysis(2,000 fps)	-	**no crack and delamination**	-	no crack and delamination
	Rotational accuracy (radial run out)	mm	**0.21**	less than 1.0	UCI(post impact)
	Rotational accuracy (lateral run out)	mm	**0.24**	less than 1.0	UCI(post impact)

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- Photo -