



NON-STANDARD WHEELS IN CONFORMITY WITH ARTICLE 1.3.018

Version on 18.05.10

Article 1.3.018 relates only to mass start competitions.

In this type of events, the riders generally use standard (traditional) wheels which are clearly defined in Article 1.3.018. These wheels are authorised de facto.

However, during mass start competitions, certain riders do use non-standard wheels (rims higher than 2.5 cm, fewer than 16 spokes, spoke thicknesses of over 2.4 mm). If any of these conditions is noted, the wheel is deemed to be a non-standard wheel and must have passed a rupture test in order for it to be authorised for use in competition.

The manufacturers inform the UCI of the names of wheels which have been successfully tested. The names of these wheels are shown in the list below. The wheels can therefore be clearly identified. If this is not the case then the wheel is not authorised for use.

ADA

- Ada wheel - V Profile (50 mm) composite carbon aramid 20 spokes

AEROHEAD

- Pro 16 spokes

AMBROSIO

- Luster 24/28 spokes
- F28Comp 20/24 spokes
- X Carbo 28 spokes
- XUL 28 spokes
- XXL tubular Zipp 360 rim 20/24 spokes
- XXL clincher Zipp 505 rim 20/24 spokes
- Laserpro 20/24 spokes
- Theorema 16/20 spokes

AMERICAN CLASSIC

- CR-420 18 spokes
- Carbon 38
- Carbon 58

BIANCHI

- XL Levitation 16/24 spokes
- XL Elevation 16/24 spokes

CAMPAGNOLO

- Neutron tubular/clincher 22 spokes
- Neutron Ultra clincher 22 spokes
- Hyperon 22 spokes
- Khamsin clincher 24 spokes
- Shamal Ultra tubular/clincher 16 spokes
- Proton 22 spokes
- Eurus WH02-EUCF 16 spokes
- Eurus Carbon WH4-EUCFC 16 spokes
- Eurus 2006 tubular/clincher 16 spokes
- Bora 18 spokes
- Scirocco G3 & Scirocco 2006 clincher 24 spokes
- Zonda G4 & Zonda 2006 clincher 16 spokes
- Zonda 18 spokes production stopped
- Atlanta 96 28/32/36 spokes production stopped
- Vento G3 & Vento 2006 24 spokes
- Zonda 16 spokes

CARBONSPORTS

-	Light Weight by Carbonsports – Ventoux	20 spokes	
-	Lightweight Obermayer 12 Gen. II	12 spokes	production stopped
-	Lightweight Obermayer 16 Gen. II	16 spokes	production stopped
-	Lightweight Obermayer 20 Gen. II	20 spokes	production stopped
-	Lightweight Standard 12 Gen. II	12 spokes	production stopped
-	Lightweight Standard 16 Gen. II	16 spokes	production stopped
-	Lightweight Standard 20 Gen. II	20 spokes	production stopped
-	Lightweight Standard 16 Gen. III	16spokes	

CITEC

-	3000 aluminium	16 spokes	
-	Ultralite aluminium	20 spokes	production stopped
-	Jet aluminium	16 spokes	production stopped
-	3000 S Aero	14 spokes	
-	6000 CX Carbon	12 spokes	

COLE

-	Shuriken tubular	16/20 spokes	
---	------------------	--------------	--

COLNAGO

-	Star	18 spokes	
---	------	-----------	--

CORIMA

-	AERO tubular	18/24 spokes	
-	AERO clincher	18/24 spokes	
-	Stevens Scorpo tubular	18/24 spokes	
-	Stevens Scorpo clincher	18/24 spokes	

DECATHLON

-	Penta Aero 20 clincher	20 spokes	production stopped
---	------------------------	-----------	--------------------

DIERL

-	Lightweight Carbon Fiber	20 spokes	
---	--------------------------	-----------	--

DT SWISS

-	RRC 1250 clincher	18 spokes	
-	RR 1850 clincher	20 spokes	
-	RRC 425F Tubular 32 (Reynolds MV32 T UL)	20 spokes	
-	RRC 570F Clincher 32 (Reynolds MV32C UL)	20 spokes	
-	RRC 445F Tubular 46 (Reynolds DV46T UL)	16/20 spokes	
-	RRC 600F Clincher 46 (Reynolds DV46C UL)	16/20 spokes	
-	RRC 625F Tubular 66 (Reynolds SDV 66 T)	16 spokes	

EASTON

-	EC90 Aero	56 mm rim	18/20 spokes
-	EC90 SL	38 mm rim	18/24 spokes

EDGE COMPOSITES

-	Carbon 68 / 65 tubular	16/20/24/28 spokes	
-	Carbon 45	18/20/24/28 spokes	

EDGE DESIGN

-	Edge 38FC tubular	20 spokes	
-	Edge 50FC tubular	20 spokes	

EQUINOX

-	RT033-700C Carbon	33 mm rim	20 spokes
-	RT038-700C Carbon	38 mm rim	20 spokes
-	RT050-700C Carbon	50 mm rim	20 spokes
-	WH051-700C Carbon	85 mm rim	20 spokes

FFWD (FAST FORWARD WHEELS)

-	F6		20/24 spokes
---	----	--	--------------

FIR

-	Galaxium (carbon wings on spokes)		20 spokes
-	Ra Antara		28 spokes
-	Ra Antara		18 spokes
-	Speed Lite		18/24/28 spokes

FSA EUROPE

-	K-Force Carbon tubular		20 spokes
-	SLK Carbon	50 mm rim	20/24 spokes

FULCRUM

-	Racing Zero tubular/clincher		16 spokes
-	Racing Zero 2-Way Fit clincher/tubeless		16 spokes
-	Racing 1 tubular/clincher		16 spokes
-	Racing 1 2-Way Fit clincher/tubeless		16 spokes
-	Racing 3 clincher		16 spokes
-	Racing 5 clincher		24 spokes
-	Racing 5 Evolution clincher		20 spokes
-	Racing 7 clincher		20 spokes
-	Racing Light tubular/clincher		22 spokes
-	Racing Light XLR tubular		18 spokes
-	Racing Speed tubular		18 spokes
-	Racing Speed XLR tubular		18 spokes
-	Racing FC tubular		18 spokes

production stopped

GIPIEMME

-	Grecal 28"		16 spokes
-	Tecno Star 28"		24 spokes
-	Tecno 024 Race 28"		24 spokes
-	Fulcrum 28		16 spokes
-	Tecno 1.55		20 spokes
-	Tecno 324		24 spokes
-	Tecno 716		16 spokes
-	Carbon H4.0		20 spokes
-	Carbon H5.5		20 spokes
-	Phoenix		20 spokes

GRAVITY-ZERO

-	Carbon Tubular	50 mm rim	20 spokes
-	Carbon Clincher	50 mm rim	20 spokes

HED

-	ALPS 700C		18 spokes
-	Stinger 4	46 mm rim	18/24 spokes
-	Stinger 6	60 mm rim	18/24 spokes
-	Stinger 9	90 mm rim	18/24 spokes
-	Jet 6	63 mm rim	18/24/28 spokes
-	Jet 9	90 mm rim	18/24/28 spokes
-	Scorpio or Stinger 3		18 spokes

KINLIN

-	XKeymet KWS-C1		24 spokes
-	XKeymet TB-25 tubular		24 spokes

MARCHISIO

-	Tetragon		16 spokes	production stopped
-	Zefir		16 spokes	
-	Tension		20 spokes	
-	Solida		28 spokes	
-	Carbozefir / T800	38 mm rim	20 spokes	

MAVIC

- Cosmic Elite		
- Cosmic Carbone Pro, SL, SL Premium, SSC, Ultimate, SLR		production stopped
- Ksyrium SSC	18/20 spokes	production stopped
- Ksyrium SSC SL	18/20 spokes	production stopped
- Ksyrium SSC SL2	18/20 spokes	production stopped
- Ksyrium SSC SL TdF	18/20 spokes	production stopped
- Ksyrium Equipe, SL, ELITE, ES	18/20 spokes	production stopped
- Ksyrium SL Premium	18/20 spokes	production stopped
- Ksyrium SL "10ème anniversaire" clincher	18 spokes	
- R-SYS SL tubular/clincher	16/20 spokes	
- R-SYS Premium clincher	16/20 spokes	
- R-SYS Ultimate tubular	16/20 spokes	
- R-SYS Lab ISM 3D	16/20 spokes	
- K10	16/20 spokes	

MAX-WHEEL

- Unlimited Speed	50 mm rim	20 spokes
-------------------	-----------	-----------

MICHE

- Radial tubular	Zipp 303 rim	24/28 spokes
- Radial		20/28 spokes
- Supertype tubular	Zipp 404 rim	24/28 spokes
- Supertype clincher	Zipp 404 rim	24/28 spokes
- Supertype 358 tubular	Zipp 365 and 280 rims	
- SWR Carbon		18 spokes

NEUGENT

- Neuvation M28 Aero		16 spokes
----------------------	--	-----------

NIPPON MITSUBISHI OIL CORPORATION

- Nisseki Carbon Wheel AM27		18 spokes
-----------------------------	--	-----------

PRO-LITE

- Gavia		20 spokes
- Vicenza		20 spokes

REYNOLDS

- DV46T (Stratus DV)	16/20 spokes
- DV46T Assault/Cross/Track	16/20 spokes
- DV46UL (Stratus DV UL Carbon)	16/20 spokes
- DV46T UL	16/20 spokes
- DV46C (Stratus DV Carbon)	16/20 spokes
- DV46C UL/Assault	16/20 spokes
- MV32T (Cirro MV)	20 spokes
- MV32T UL	20 spokes
- MV32C (Cirro MV clincher)	20 spokes
- MV32C UL/Attack	20 spokes
- SDV 66 tubular	16 spokes
- Solitude 700 C clincher	20 spokes

RITCHEY

- WCS Protocol Road	16 spokes	
- Pro DS Road	20 spokes	
- Comp DS Road	20 spokes	
- Velomax Circuit		production stopped
- Superlogic Carbon Tubular 46 (Reynolds DV46T UL)	16/20 spokes	
- Superlogic Carbon Clincher 46 (Reynolds DV46C UL)	16/20 spokes	

ROLF PRIMA

-	Vigor	14 spokes	
-	Echelon	16 spokes	
-	Carbon TdF 38	14 spokes	
-	Carbon TdF 58	12 spokes	

SHIMANO

-	WH-R535 clincher (black/silver)	16 spokes	production stopped
-	WH-540 clincher (black)	16 spokes	production stopped
-	WH-6500 clincher (silver)	16 spokes	production stopped
-	WH-7700 tubular/clincher (dark green)	16 spokes	production stopped
-	WH-7700 CFRP tubular (black)	16 spokes	production stopped
-	WH-7701 tubular/clincher (black)	16 spokes	production stopped
-	WH-7701 CFRP tubular (black)	16 spokes	production stopped
-	WH-7800 + WH 7801 tubular/clincher (silver) Dura Ace	16/20/24 spokes	production stopped
-	WH-7800 + WH 7801 CFRP tubular (silver) Dura Ace	16/20/24 spokes	production stopped
-	WH-7800 SL + WH 7801 tubular (black) Dura Ace	16/20 spokes	production stopped
-	WH-7850-C50-CL	16 spokes	
-	WH-7850-C50-TU	16 spokes	
-	WH-RS 30	16 spokes	
-	WH-7850-C75-TU	12 spokes	
-	WH-7850-C35-TU	16 spokes	
-	WH-7900-C35-TU	16 spokes	
-	WH-RS20-A	16 spokes	
-	WH-RS30-A	16 spokes	
-	PRO RC50 High Profile Carbon clincher	24 spokes	
-	PRO RC50 High Profile Carbon tubular	24 spokes	

SPINERGY

-	SRX (2B02)	20/28 spokes	
-	SR3 (2S02)	20/28 spokes	
-	X Aero (PRI-FC-111)	16/20 spokes	
-	X Aero Lite (2L02)	18/20 spokes	
-	X Aero Carbon	16/20 spokes	

SUNNY CROWN ENTERPRISE

-	CKT Splendor Carbone	16/18 spokes	
-	CKT Aurora Carbon	16 spokes	

THORIUS

-	SHADO Carbon clincher	16/20 spokes	
-	SHADO Carbon tubular	16/20 spokes	
-	N'ERA	24 spokes	

TOKEN

-	C30A	20 spokes	
-	T50	20 spokes	
-	T38	20/24 spokes	
-	C50	20/24 spokes	

TOPOLINO

-	Revelation	24 spokes	
---	------------	-----------	--

TREK

-	Bontrager Aeolus 9.0 (XXX-lite Aero 90)	16 spokes	
-	Bontrager Aeolus 6.5 (XXX-lite Aero 60)	16 spokes	
-	Bontrager Aeolus 5.0 Tubular	16 spokes	
-	Bontrager Aeolus 5.0 ACC Clincher	16 spokes	
-	Bontrager Aeolus 5.0 SE Carbon Tubular	18 spokes	
-	Bontrager Race X-lite Aero Tubular	16 spokes	production stopped
-	Bontrager Race X-lite Carbon Aero Tubular	16 spokes	production stopped
-	Bontrager Race X-lite Tubular	20/24 spokes	production stopped
-	Bontrager Race X-lite Clincher	20/24 spokes	

-	Bontrager Race Lite Tubular		20/24 spokes	production stopped
-	Bontrager Race Lite Aero Clincher		20/24 spokes	
-	Vector Comp (Rolf)		20 spokes	production stopped
-	Vector Pro (Rolf)		14 spokes	production stopped

TUFO

-	Cyclone Energy		20 spokes	
---	----------------	--	-----------	--

VISION

-	TriMaxPro Special Series Aluminium		20 spokes	
-	TriMax Carbon	50 mm rime	20/24 spokes	

VUELTA

-	XRP III Silver		24 spokes	
-	Xlite		20 spokes	
-	Carbon Pro		12 spokes	

VZAN

-	Futura		20 spokes	
-	Concept Road		20 spokes	

XERO

-	XR-1F		16 spokes	
---	-------	--	-----------	--

ZIPP SPEED WEAPONRY

-	303 Z3 Tubular	Zipp 280 rim	18/21 spokes	production stopped
-	303 Tubular 650c	Zipp 245 rim		
-	303 Tubular 700c			
-	303 Clincher	Zipp 415 rim	18 spokes	
-	303 Clincher 650c	Zipp 370 rim	18 spokes	
-	404 Z4 Tubular	Zipp 360 rim	18/21 spokes	production stopped
-	404 Tubular 650c	Zipp 330 rim		
-	404 Tubular 700c			
-	404 Clincher	Zipp 505 rim	18 spokes	
-	404 Clincher 650c	Zipp 460 rim		
-	808 Tubular	Zipp 420 rim	18 spokes	
-	808 Clincher	Zipp 420 rim		
-	Velomax Tempest II			production stopped
-	SRAM S30 AL Sprint	30 mm rim	18/20 spokes	
-	SRAM S40 Clincher	Zipp 415 rim		
-	SRAM S60 Clincher	Zipp 505 rim		
-	SRAM S80 Clincher	Zipp 520 rim		
-	FlashPoint 40	Zipp 415 rim		
-	FlashPoint 60	Zipp 505 rim		
-	FlashPoint 80	Zipp 520 rim		

NON-STANDARD WHEELS IN CONFORMITY WITH ARTICLE 1.3.018

1.3.018

Wheels of the bicycle may vary in diameter between 70 cm maximum and 55 cm minimum, including the tyre. For the cyclo-cross bicycle the width of the tyre shall not exceed 35 mm and it may not incorporate any form of spike or stud.

For mass start competitions in the disciplines road and cyclo-cross, only wheel designs granted prior approval by the UCI may be used. Wheels shall have at least 12 spokes; spokes can be round, flattened or oval, as far as no dimension of their sections exceeds 10 mm. In order to be granted approval wheels must have passed a rupture test as prescribed by the UCI in a laboratory approved by the UCI. The test results must show that the rupture characteristics obtained are compatible with those resulting from an impact sustained during normal use of the wheel. The following criteria must be fulfilled:

- On impact, no element of the wheel may become detached and be expelled outwards.
- The rupture must not present any shattered or broken off elements, or any sharp or serrated surfaces that could harm the user, other riders and/or third parties.
- The rupture characteristics must not cause the hub to become separated from the rim in such a way that the wheel becomes detached from the forks.

Without prejudice to the tests imposed by the laws, regulations or customs, standard (traditional) wheels are exempted from the rupture test referred to above. A traditional wheel is deemed to be a wheel with at least 16 metal spokes; the spokes may be round, flat or oval, provided that no dimension of their cross sections exceeds 2.4 mm; the section of the rim must not exceed 2.5 cm on each side.

Notwithstanding this article, the choice and use of wheels remains subject to Articles 1.3.001 to 1.3.003.