



NON-STANDARD WHEELS IN CONFORMITY WITH ARTICLE 1.3.018

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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	
-	3000 S Aero Carbon		16 spokes	
-	6000 CX Carbon		12 spokes	

COLE

-	Shuriken tubular		16/20 spokes	
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COLNAGO

-	Star		18 spokes	
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CORIMA

-	AERO tubular		18/24 spokes	
-	AERO clincher		18/24 spokes	
-	AERO+ MCC tubular	50 mm rim	12 spokes	
-	WINIUM+ MCC tubular	28 mm rim	12 spokes	
-	Stevens Scorpo tubular		18/24 spokes	
-	Stevens Scorpo clincher		18/24 spokes	

DECATHLON

-	Penta Aero 20 clincher		20 spokes	production stopped
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DETEC

-	M58 carbon	58 mm rim	20 spokes	
-	U38 carbon	38 mm rim	20 spokes	
-	U50 carbon	50 mm rim	20 spokes	
-	U60 carbon	60 mm rim	20 spokes	
-	U80 carbon	80 mm rim	20 spokes	
-	LITE T58 (DETEC M58)	58 mm rim	20 spokes	
-	LITE C38 (DETEC U38)	38 mm rim	20 spokes	
-	LITE C50 (DETEC U50)	50 mm rim	20 spokes	
-	LITE C80 (DETEC U80)	80 mm rim	20 spokes	
-	ZZYZX Race Attack 58 (DETEC M58)	58 mm rim	20 spokes	
-	ZZYZX Race Attack 38 (DETEC U38)	38 mm rim	20 spokes	
-	ZZYZX Race Attack 60 (DETEC U60)	60 mm rim	20 spokes	
-	ZZYZX Race Attack 80 (DETEC U80)	80 mm rim	20 spokes	

DIERL

-	Lightweight Carbon Fiber		20 spokes	
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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
- Sidewinder 3.8 38 mm rim 20 spokes
- Sidewinder 8.5 85 mm rim 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
- RT050C-700C carbon 50 mm rim 20 spokes
- WH051-700C Carbon 85 mm rim 20 spokes

FFWD (FAST FORWARD WHEELS)

- F6 20/24 spokes
- F5 carbon 50 mm rim 20/24 spokes
- F4 carbon 40 mm rim 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

- Greca 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

MATRIX

- T38 carbon tubular 38 mm rim 20 spokes
 - T50 carbon tubular 50 mm rim 20 spokes
 - T60 carbon tubular 60 mm rim 20 spokes

MAVIC

- Cosmic Elite
 - Cosmic Carbone Pro, SL, SL Premium, SSC, Ultimate, SLR production stopped
 - Cosmic Carbone 80 SSC 2010 16/20 spokes
 - 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	
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PRO-LITE

-	Gavia	20 spokes	
-	Vicenza	20 spokes	

PRORACE

-	Shooters CW051 carbon	51 mm rim	20/24 spokes
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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
-	Bontrager Race X-lite Carbon Aero Tubular		16 spokes
-	Bontrager Race X-lite Tubular		20/24 spokes
-	Bontrager Race X-lite Clincher		20/24 spokes
-	Bontrager Race Lite Tubular		20/24 spokes
-	Bontrager Race Lite Aero Clincher		20/24 spokes
-	Vector Comp (Rolf)		20 spokes
-	Vector Pro (Rolf)		14 spokes
			production stopped
			production stopped
			production stopped
			production stopped
			production stopped
			production stopped
TUFO			
-	Cyclone Energy		20 spokes
URSUS			
-	Miura C58	58 mm rim	20/24 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.