



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.

3T CYCLING

-	3T Mercurio LTD 60	60 mm rim	18 spokes
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4ZA

-	Cirrus Pro C50	50 mm rim	20 spokes
-	Cirrus Pro T50	50 mm rim	20 spokes
-	Cirrus Pro T100	100 mm rim	20 spokes

ADA

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

-	Pro		16 spokes
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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		

ASK TRADING INC.

-	BOMA TH-11C	50 mm rim	20/24 spokes
-	BOMA TH-13W	38 mm rim	20/24 spokes

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	

CARBONSPTS

-	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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CONTROLTECH

-	Auster	38 mm rim	20/24 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	
-	UP S (12R)	74mm rim	12 spokes	
-	UP S (18R)	74mm rim	18 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	
-	U45 carbon	45 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	

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

EDCO ENGINEERING BV

-	EDCO/oseous FURKA Competition	58 mm rim	20/24 spokes
-	OSEOUS/edco FCC58	58 mm rim	20/24 spokes

EDGE DESIGN

-	Edge 38FC tubular	38 mm rim	20 spokes
-	Edge 50FC tubular	50 mm rim	20 spokes
-	Edge 58FC tubular	58 mm rim	20 spokes
-	Edge 85FC tubular	85 mm rim	20 spokes
-	Sidewinder 3.8	38 mm rim	20 spokes
-	Sidewinder 8.5	85 mm rim	20 spokes

ENVE COMPOSITES

-	Carbon 68 / 65 tubular		16/20/24/28 spokes
-	Carbon 45		18/20/24/28 spokes
-	Smart ENVE 6.7 Tubular	60 mm rim	16/20/24/28 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

-	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 5	52 mm rim	18/24 spokes	
-	Stinger 6	60 mm rim	18/24 spokes	
-	Stinger 7	78 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	

INFINITO CYCLING

-	Infinito R6	60mm rim	20/24 spokes	
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JORBI BIKES

-	JORBI A30	30 mm rim	20 spokes	
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KINLIN

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

LITE

-	T58 carbon tubular (Detec M58)	58 mm rim	20 spokes	
-	C38 carbon clincher (Detec U38)	38 mm rim	20 spokes	
-	C50 carbon clincher (Detec U50)	50 mm rim	20 spokes	
-	C80 carbon clincher (Detec U80)	80 mm rim	20 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	
-	SCHNELL PODIUM 38	38 mm rim	20 spokes	
-	SCHNELL PODIUM 50	50 mm rim	20 spokes	
-	SCHNELL PODIUM 60	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	
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MERCURY

-	M3 tubular	38 mm rim	20 spokes	
-	M5 tubular	58 mm rim	20 spokes	
-	M9 tubular	85 mm rim	20 spokes	
-	M3 clincher	38 mm rim	20 spokes	
-	M9 clincher	85 mm rim	20 spokes	

MICHE

-	Radial tubular	Zipp 303 rim	24/28 spokes	production stopped
-	Radial		20/28 spokes	production stopped
-	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	
-	SWR Full Carbon	38/50 mm rim	18/24 spokes	
-	Reflex RX 5 clincher	23 mm rim	24/28 spokes	
-	Race 707 clincher	25 mm rim	20/28 spokes	
-	Supertype 558 RS tubular	58 mm rim	18/24 spokes	
-	Connect clincher	25mm rim	18/24 spokes	

NEUGENT

-	Neuvation M28 Aero		16 spokes	
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NIPPON MITSUBISHI OIL CORPORATION

-	Nisseki Carbon Wheel AM27		18 spokes	
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NOVATEC

-	W150 Tubular	50 mm rim	20 spokes	
-	W240 Tubular	40 mm rim	20 spokes	
-	W250 Tubular	50 mm rim	20 spokes	
-	W285 Tubular	85 mm rim	16 spokes	
-	W350 Tubular	50 mm rim	20 spokes	
-	W752 Tubular	52 mm rim	20 spokes	
-	W250 Clincher	50 mm rim	20 spokes	

PROFILE DESIGN

-	Altair 52mm Semi Carbon Clincher	52 mm rim	20/24 spokes	
-	Altair 52mm Full Carbon Clincher	52 mm rim	20/24 spokes	
-	Altair 52mm Full Carbon Tubular	52 mm rim	20/24 spokes	
-	Altair 80 mm Semi Carbon Clincher	80 mm rim	20/24 spokes	
-	Altair 80 mm Full Carbon Clincher	80 mm rim	20/24 spokes	
-	Altair 80 mm Full Carbon Tubular	80 mm rim	20/24 spokes	

-	Armada 38 AL	38 mm rim	20/24 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	production stopped
-	Assault Cross / Assault Track		16/20 spokes	
-	DV46UL (Stratus DV UL Carbon)		16/20 spokes	production stopped
-	Forty-Six		16/20 spokes	
-	Forty-Six		16/20 spokes	
-	Assault		16/20 spokes	
-	MV32T (Cirro MV)		20 spokes	production stopped
-	Thirty-Two		20 spokes	
-	Thirty-Two		20 spokes	
-	Attack		20 spokes	
-	Sixty-Six		16 spokes	
-	Solitude		20 spokes	
-	RZR Sawtooth 46T		16 spokes	
-	Eighty One		16/20 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	
-	Ritchey WCS APEX 50		20 spokes	
-	Ritchey WCS APEX 46 (Reynolds Forty-Six)		20 spokes	

ROLF PRIMA

-	Vigor		14 spokes	
-	Echelon		16 spokes	
-	Carbon TdF 38		14 spokes	
-	Carbon TdF 58		12 spokes	
-	Ares 4 (Reynolds Forty-Six)		16/20 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-7900-C35-CL	35 mm rim	16 spokes	
-	WH-7900-C50-CL	50 mm rim	16/20 spokes	
-	WH-7900-C50-TU	50 mm rim	16/20 spokes	

-	WH-R501-30		20/24 spokes
-	WH-RS20-A		16 spokes
-	WH-RS30-A		16 spokes
-	WH-RS80-C50-CL		16 spokes
-	PRO RC50 High Profile Carbon clincher		24 spokes
-	PRO RC50 High Profile Carbon tubular		24 spokes

SPECIALIZED BICYCLE COMPONENTS INC.

-	Roval AL35	35mm rim	20 spokes
-	Roval Rapide SL45	47mm rim	20 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
-	T33	33 mm rim	20/24 spokes
-	C55A	55 mm rim	20/24 spokes

TOPOLINO

-	Revelation		24 spokes
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TREK

-	Bontrager Aeolus 3 CX	35 mm rim	18 spokes	
-	Bontrager Aeolus 3 Tubular	35 mm rim	18 spokes	
-	Bontrager Aeolus 9.0 (XXX-lite Aero 90)		16 spokes	
-	Bontrager Aeolus 9 D3	90 mm rim	18 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 5.0 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
-	Bontrager Aeolus 7 D3		18 spokes	

TUFO

-	Cyclone Energy		20 spokes
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URSUS

- Miura C58 58 mm rim 20/24 spokes
- MIURA TS58 58 mm rim 20/24 spokes

VISION

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

VUELTA

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

VZAN

- Futura 20 spokes
- Concept Road 20 spokes

WISHBONE ENTREPRISE Co., LTD.

- T100 100 mm rim 20 spokes
- ELITE 50T 50 mm rim 20 spokes
- ELITE 38T 38 mm rim 20 spokes

XERO

- XR-1F 16 spokes

XRD EXTREME RACING DESIGN

- CC60 60mm rim 20 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
- Zipp 101 wheelset 30 mm rim 18/20 spokes
- Zipp 202 tubular wheelset 32 mm rim 18/24 spokes

ZYZX

- Race Attack 58 (Detec M58) 58 mm rim 20 spokes
- Race Attack 38 (Detec U38) 38 mm rim 20 spokes
- Race Attack 60 (Detec U60) 60 mm rim 20 spokes
- Race Attack 80 (Detec U80) 80 mm rim 20 spokes

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 33 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.