

THE NETHERLANDS (N E D E R L A N D)





Concerning (1)

- approval granted
- approval extended
- approval refusal
- approval withdrawn
- production definitely discontinued

of a type of tyre for motor vehicles pursuant to Regulation number 30.

Approval number: E4*30R02/22*97201*05

1. Manufacturer's name and address : ZODO TIRE CO., LIMITED

The South of Yalujiang Road, Wenzhuang Village Qinghe Agency of

Cao County Heze City Shandong Province 274400

China (PRC)

2. Tyre type designation (2)

 $2.1. \quad Brand-name(s)/trademark(s) \qquad \qquad : \ \, See \ annex \ 1 \ of \ communication \ form$

2.2. Trade description(s)/Commercial name(s) : See annex 1 of communication form

3. If applicable, name and address of the

manufacturer's representative

: Not applicable

4. Summarised description

4.1. Tyre size designation : 185/65R14

4.2. Category of use : normal/snow/special use /temporary use (1)

4.3. Structure : diagonal / bias belted/radial/ run flat tyre (1)

4.4. Speed category symbol : H

4.5. Load-capacity index : 86

P.O. Box 777 2700 AT Zoetermeer The Netherlands Tel. +31 (0)79 345 83 02 E-mail typeapproval@rdw.nl www.rdw.nl Type-approval Department



Approval number: E4*30R02/22*97201*05

applicable, test laboratory approved for

purposes of approval or of verification

of conformity

4.6. Extended Mobility Tyre : Yes /No⁽¹⁾

5. Technical service and, where : IDIADA Automotive Technology S.A.Institute for Applied

Automotive Research L' Albornar P.O. Box 20

E-43710 Santa Oliva (Tarragona)

Spain

6. Date of report issued by that service : 2021-05-31

7. Number of report issued by that service : CN21050653

8. Reason(s) of extension (if applicable) : Update of tyre type designation(s)

Upgrade of regulation supplement number

9. Any remarks : Not applicable

10. Place : Zoetermeer

11. Date : 16 June 2021

12. Signature :

The list of documents in the approval file which are deposited at the administrative service having delivered the approval

- Application form relating to ECE approval for a pneumatic tyre pursuant to Regulation number 30.
- The drawing of the tyre's sidewalls, tread and dimensioned cross-section.
- The test report as mentioned in item 7.

and which can be obtained upon request.

Tyres-passenger-vehicle R30-02 v7.00 Page 2 of 2

⁽¹⁾ Strike out what does not apply

⁽²⁾ A list of Brand name(s)/trademark(s) or Trade description(s)/Commercial name(s) may be annexed to this communication

Approval number: E4*30R02/22*97201*05

Annex 1

2. Tyre type designation

2.1. Brand-name(s)/trademark(s):

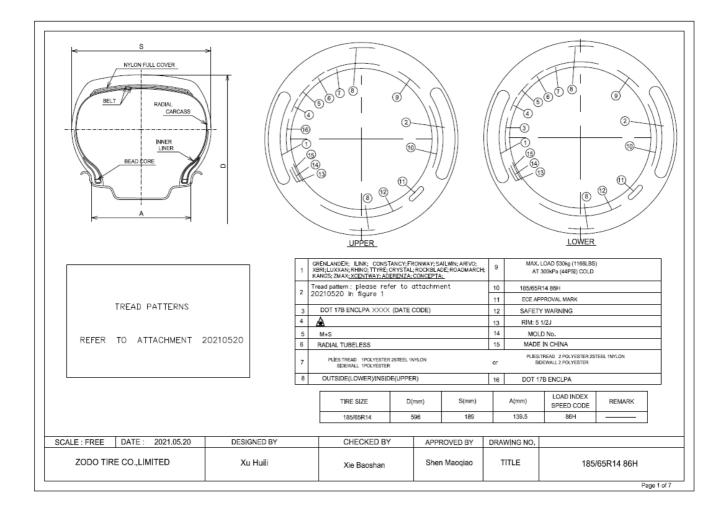
GRENLANDER; ILINK; CONSTANCY; FRONWAY; SAILWIN; ARIVO; XBRI; LUXXAN; RHINO; <u>TTYRE;</u> CRYSTAL; ROCKBLADE; ROADMARCH; KANGS; ZMAX; XCENTWAY; ADERENZA; CONCEPTA

2.2. Trade description(s)/Commercial name(s):

Winter GL868; Winter IL868; LY868; ICEPOWER 868; ICEWINNER 868; WINMASTER ARW2; ROCK 868S; THIRTY TWO; SNOWROVER 868; COMMANDER W7; ICEPIONEER 868; GREENWING A/S; MULTIMATCH A/S; FRONWING A/S; FREIMATCH A/S; Carlorful A/S; PRIME A/S; ROCK A/S ONE; FORTY ONE; INSPIRER A/S 1; X-SPIDER A/S; COLO H01; L-GRIP66; LY168; ECOGREEN 66; VENUSATR 66; Energize; PREMIO ARZ1; ECOLOGY; INSPIRER C4; THREE; ROCK 515; PRIMESTAR 66; ICEHAWKE I; SNOWGRIPPER I; ICEMASTER I; SNOWHAWKE I; Winmaster ProX ARW3; SNOWPLORER I; ICECRUISER I; Winter Xpro 888; WINTERHAWKE I; POLARSNOW; COLO H02; L-GRIP55; ECOGREEN 55; VENUSATR 55; PREMIO ARZERO; INSPIRER ECO; ROCK 555; PRIMESTAR 55; LANDGEMA; Transcender 701; SPEEDLINE D2; COLO H03; L-GRIP99; ECOGREEN 99; VENUSATR 99; INSPIRER C9; ROCK 999; ECOPRO 99; LANDGEMA II; G-STRONG99+; L-STRONG99+; F-STRONG99+; INSPIRER T2

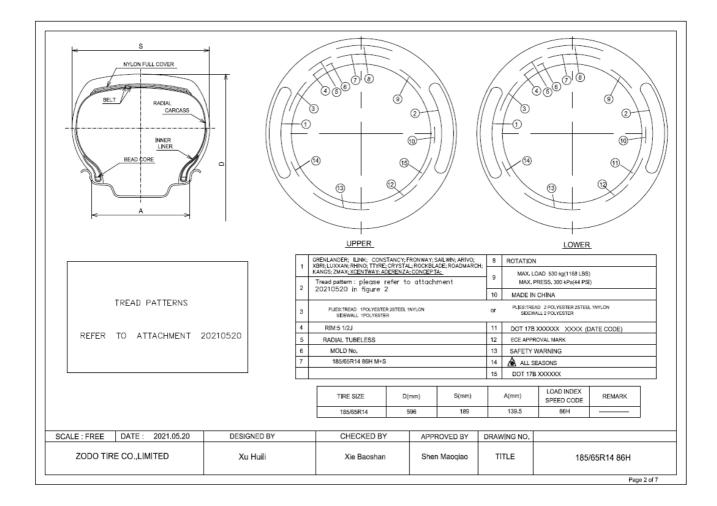


APPENDIX 1. CONSTRUCTION IMAGE (1)



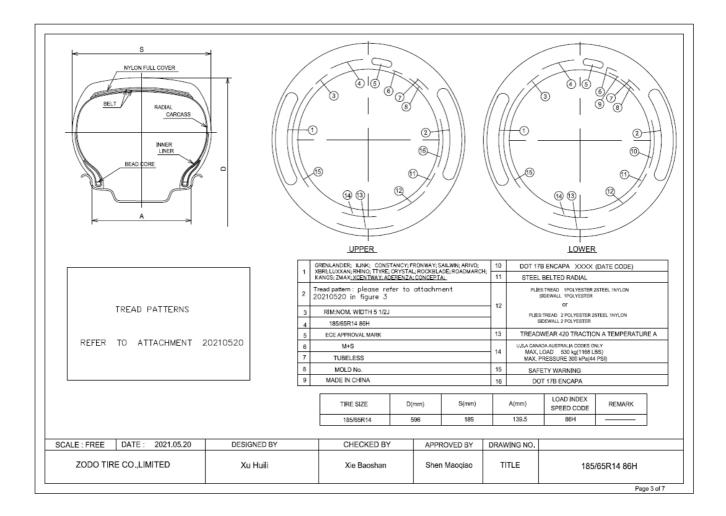
 $^{^{(1)}}$ The tyre marking statements are considered leading in case of deviating drawing information.

APPENDIX 2. CONSTRUCTION IMAGE (1)



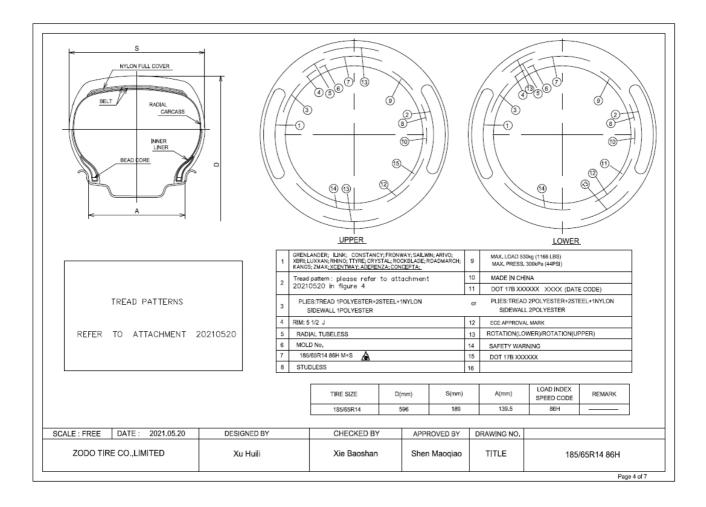
 $^{^{(1)}}$ The tyre marking statements are considered leading in case of deviating drawing information.

APPENDIX 3. CONSTRUCTION IMAGE (1)



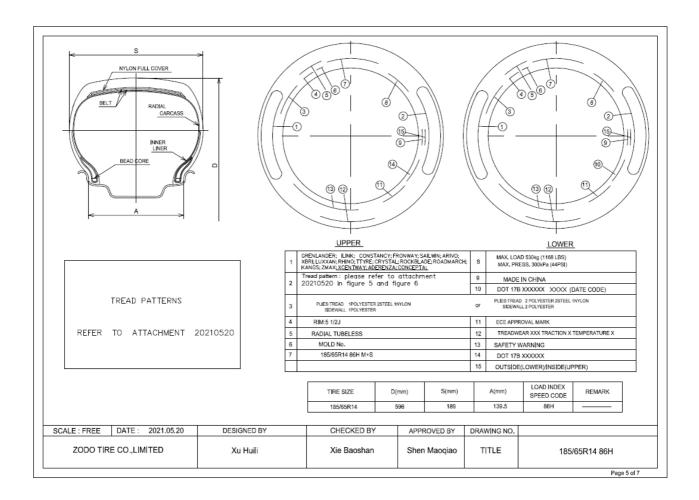
 $^{^{(1)}}$ The tyre marking statements are considered leading in case of deviating drawing information.

APPENDIX 4. CONSTRUCTION IMAGE (1)



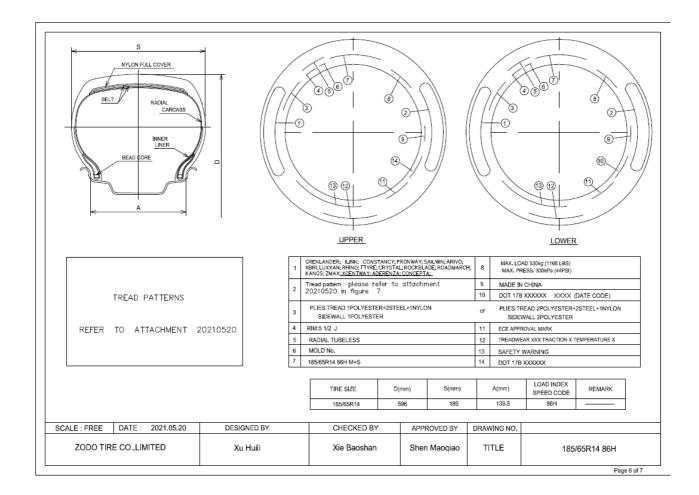
 $^{^{(1)}}$ The tyre marking statements are considered leading in case of deviating drawing information.

APPENDIX 5. CONSTRUCTION IMAGE (1)



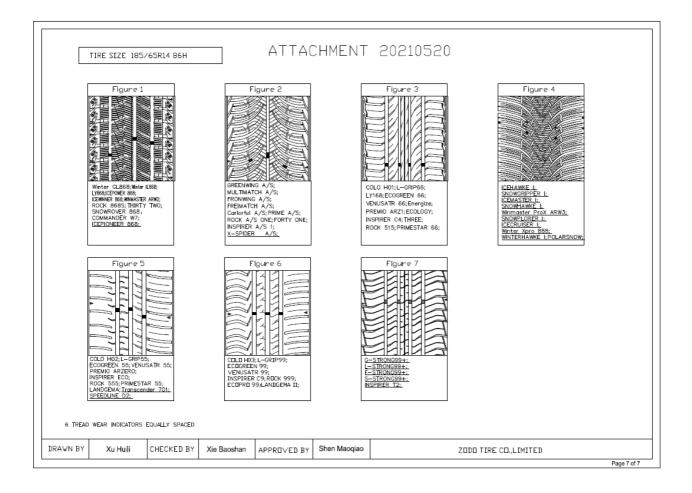
 $^{^{(1)}}$ The tyre marking statements are considered leading in case of deviating drawing information.

APPENDIX 6. CONSTRUCTION IMAGE (1)



 $^{^{(1)}}$ The tyre marking statements are considered leading in case of deviating drawing information.

APPENDIX 7. CONSTRUCTION IMAGE (1)



 $^{^{(1)}}$ The tyre marking statements are considered leading in case of deviating drawing information.

Test report data delivered by the designated technical service or its laboratory/branch office responsible for conducting the approval tests

Tested in accordance to ECE regulation no. 30, 02 series of amendments, supplement 22

Test reports	:	Date of report	Startdate of tests	Location of test	Reference
		2021-05-31	2016-09-14	Heze, China	CN21050653
Appropriate test facility, calibrated measurement- and test equipment have been used in compliance with the applicable test requirements	:	Y			
Name and address of designated technical service	:	IDIADA Automot Research L' Albornar P.O. B E-43710 Santa Oli Spain		nstitute for Applied A	Automotive
Name and address of branch office of designated technical service	:	N.A.			
Tyre size designation	:	185/65R14			
Brand-name(s) / trademark(s)	:	GRENLANDER, ILINK, CONSTANCY, FRONWAY, SAILWIN, ARIVO, XBRI, LUXXAN, RHINO, TTYRE, CRYSTAL, ROCKBLADE, ROADMARCH, KANGS, ZMAX, XCENTWAY, ADERENZA, CONCEPTA			
Trade description(s) / commercial name(s)	·	WINMASTER AF COMMANDER V A/S, FRONWING A/S ONE, FORTY GRIP66, LY168, I ARZ1, ECOLOGY ICEHAWKE I, SN Winmaster ProX A 888, WINTERHA ECOGREEN 55, V ROCK 555, PRIM D2, COLO H03, I C9, ROCK 999, E	inter IL868, LY868, I RW2, ROCK 868S, TI W7, ICEPIONEER 86 G A/S, FREIMATCH A CONE, INSPIRER A ECOGREEN 66, VEN Y, INSPIRER C4, TH NOWGRIPPER I, ICE ARW3, SNOWPLORI WKE I, POLARSNO VENUSATR 55, PRE IESTAR 55, LANDG J-GRIP99, ECOGREI COPRO 99, LANDG STRONG99+, S-STR	HIRTY TWO, SNOW 8, GREENWING A. A/S, Carlorful A/S, P. (S 1, X-SPIDER A/S) JUSATR 66, Energiz REE, ROCK 515, P. EMASTER I, SNOW ER I, ICECRUISER W, COLO H02, L-G MIO ARZERO, INS EMA, Transcender 7 EM 99, VENUSATR EMA II, G-STRONO	WROVER 868, //S, MULTIMATCI PRIME A/S, ROCK S, COLO H01, L- ze, PREMIO RIMESTAR 66, //HAWKE I, I, Winter Xpro SRIP55, SPIRER ECO, 701, SPEEDLINE 99, INSPIRER G99+, L-
Category of use	:	Snow			
Structure	:	Radial			
EMT (Extended Mobility Tyre)	:	N			
Speed category symbol	:	Н			
Load capacity index	:	86			
Protective rib	:	N			
Tubeless	:	Y			
Standard / reinforced / T-type temporary use	:	Standard			
Ply-rating number of diagonal (bias-ply) tyres	:	N.A.			
Factor 'x'	:	0.7			
Maximum speed for speed symbol Y for load rating determination	:	N.A.			
Tread-wear indicators					
Height of lowest tread-wear indicator	:	1.97 mm			
Height of tallest tread-wear indicator	:	1.99 mm			
Number of transverse rows of wear indicators	:	6			
Special use tread pattern features	:	N.A.			

1 Test data

1.1 Construction variant 1 - construction group I

1.1.1 MEASURING DATA (ACCORDING TO ANNEX 6)

1.1.1.1 Measuring rim width : 5.5 inch

1.1.1.2 Conditioning

Mounting pressure: 3.0 barAdjusted pressure: 1.8 barConditioning time: 24 hrsTest room temperature: 25.0 °CReadjusted pressure: 1.8 bar

1.1.1.3 Measurements

Overall width measured : 195 mm
Calculated outer diameter : 594 mm

1.1.1.4 Plies of tyre subject for type approval

Material	Side wall	Tread
Polyester	1	1
Steel	0	2
Nylon	0	1

1.1.2 LOAD SPEED PERFORMANCE TEST (ACCORDING TO ANNEX 7)

1.1.2.1 Reference is made to a worst case tyre out of the tyre range : N

1.1.2.2 Test setup

Test drum diameter : 1.70 mTest rim width : 5.5 inchTest axle load : 424 kg

1.1.2.3 Conditioning

Test inflation pressure

The test inflation pressure differs from those given under : N

Annex 7 paragraph 1.2

Conditioning time : 3 hrs

2.8 bar

Test room temperature : $28.0 \,^{\circ}$ C Readjusted pressure : $2.8 \,^{\circ}$ C Outer diameter before test : N.A.

1.1.2.5 Test procedure

1.1.2.4

Time from zero to initial test speed : 10 min

Test steps :

Step	Duration (min)	Speed (km/h)	
1.	10	170	
2.	10	180	
3.	10	190	
4.	20	200	

1.1.2.6 Test results

Traces of tread separation, ply separation, cord separation, : N

chunking or broken cords after the load/speed test

Superficial blistering after the load/speed test caused by the : N

specific test equipment and conditions

Conditioning time after test : N.A.

Calculated outer diameter of measured circumference after : N.A.

test

Change in outer diameter after test : N.A.

1.2 Construction variant 2 - construction group II

1.2.1 MEASURING DATA (ACCORDING TO ANNEX 6)

1.2.1.1 Measuring rim width : 5.5 inch

1.2.1.2 Conditioning

Mounting pressure: 3.0 barAdjusted pressure: 1.8 barConditioning time: 24 hrsTest room temperature: $25 ^{\circ}\text{C}$ Readjusted pressure: 1.8 bar

1.2.1.3 Measurements

Overall width measured : 190 mm

Calculated outer diameter : 596 mm

1.2.1.4 Plies of tyre subject for type approval

Material	Side wall	Tread
Polyester	2	2
Steel	0	2
Nylon	0	1

1.2.2 LOAD SPEED PERFORMANCE TEST (ACCORDING TO ANNEX 7)

1.2.2.1 Reference is made to a worst case tyre out of the tyre range $\,:\,\,\,N$

1.2.2.2 Test setup

Test drum diameter : 1.70 m
Test rim width : 5.5 inch
Test axle load : 424 kg

1.2.2.3 Conditioning

 $\begin{array}{lll} \mbox{Test inflation pressure} & : & 2.8 \mbox{ bar} \\ \mbox{The test inflation pressure differs from those given under} & : & N \end{array}$

Annex 7 paragraph 1.2

1.2.2.5 Test procedure

Time from zero to initial test speed : 10 min

Test steps

Step	Duration (min)	Speed (km/h)	
1.	10	170	
2.	10	180	
3.	10	190	
4.	20	200	

1.2.2.6 Test results

Traces of tread separation, ply separation, cord separation, chunking or broken cords after the load/speed test

Superficial blistering after the load/speed test caused by the : N

: N

specific test equipment and conditions

Conditioning time after test : N.A.
Calculated outer diameter of measured circumference after : N.A.

Change in outer diameter after test : N.A.

2 TYRE MARKINGS

STATEMENT (1)

2.1	Brand name or trade mark	:	Marked
2.2	Trade description / commercial name	:	Marked
2.3	Date of manufacture	:	Marked
	- character height >= 4 mm	:	Y

2.4 Upper side wall markings

"TEMPORARY USE ONLY" : N.A. "INFLATE TO 420kPa (60 psi)" : N.A.

2.5 Lower side wall markings

Approval mark in accordance to article 3.2, 3.4, 5.4 and Annex : Y

2

"POR"

Tyre structure letter code : R
Tyre to rim fitment code : N.A.

Service description

- marked within brackets N.A. - immediately after tyre size designation Y - character height >= 6mm Y "RADIAL" Marked - character height >= 4 mm Y "B" and "BIAS BELTED" : N.A. "TUBELESS" Marked - character height >= 4 mm Y Run flat symbol N.A. EMT (Extended mobility tyre) symbol N.A. "REINFORCED" or "EXTRA LOAD" : N.A. "M+S"/"M.S"/"M&S" Marked Y - character height >= 4 mm "ET" N.A.

Nominal envelop dimensions of the inflated tyre mounted on the measuring rim (1)

: N.A.

: In lower area

S : 189 mm D : 596 mm A : 139.5 mm

⁽¹⁾ The tyre marking statements are considered leading in case of deviating drawing information.

APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE FOR TYRES FOR MOTOR VEHICLES AND THEIR TRAILERS ACCORDING TO ECE REGULATION No. 30, 02 SERIES OF AMENDMENTS, SUPPLEMENT 22

4.1	Name and address of manufacturer (applicant)	: ZODO TIRE CO., LIMITED The South of Valuiting Read, Wanghuang Village Oinghe Agency of Co.
		The South of Yalujiang Road, Wenzhuang Village Qinghe Agency of Cao County Heze City
		Shandong Province 274400
		China (PRC)
	Name and address of branch office of designated technical	: N.A.
	service (manufacturers duly accredited representative)	
4.1.1	Tyre size designation	: 185/65R14
4.1.2.1	Brand-name(s) / trademark(s)	: GRENLANDER, ILINK, CONSTANCY, FRONWAY, SAILWIN, ARIVO,
		XBRI, LUXXAN, RHINO, TTYRE, CRYSTAL, ROCKBLADE, ROADMARCH, KANGS, ZMAX, XCENTWAY, ADERENZA, CONCEPTA
4.1.2.2	Trade description(s) / commercial name(s)	: Winter GL868, Winter IL868, LY868, ICEPOWER 868, ICEWINNER 868,
4.1.2.2	riade description(s)/ commercial name(s)	WINMASTER ARW2, ROCK 868S, THIRTY TWO, SNOWROVER 868, COMMANDER W7, ICEPIONEER 868, GREENWING A/S,
		MULTIMATCH A/S, FRONWING A/S, FREIMATCH A/S, Carlorful A/S,
		PRIME A/S, ROCK A/S ONE, FORTY ONE, INSPIRER A/S 1, X-SPIDER A/S, COLO H01, L-GRIP66, LY168, ECOGREEN 66, VENUSATR 66,
		Energize, PREMIO ARZ1, ECOLOGY, INSPIRER C4, THREE, ROCK 515,
		PRIMESTAR 66, ICEHAWKE I, SNOWGRIPPER I, ICEMASTER I, SNOWHAWKE I, Winmaster ProX ARW3, SNOWPLORER I, ICECRUISER
		I, Winter Xpro 888, WINTERHAWKE I, POLARSNOW, COLO H02, L-
		GRIP55, ECOGREEN 55, VENUSATR 55, PREMIO ARZERO, INSPIRER
		ECO, ROCK 555, PRIMESTAR 55, LANDGEMA, Transcender 701, SPEEDLINE D2, COLO H03, L-GRIP99, ECOGREEN 99, VENUSATR 99,
		INSPIRER C9, ROCK 999, ECOPRO 99, LANDGEMA II, G-STRONG99+,
		L-STRONG99+, F-STRONG99+, S-STRONG99+, INSPIRER T2
4.1.3	Category of use	: Snow
4.1.3.1	For the tyres belonging to the category of use "special use tyre" those which may bear the inscription M+S or M.S or M&S	: N.A.
4.1.4	Structure	: Radial
4.1.5	Speed category symbol	: Н
4.1.6	Load capacity index	: 86
4.1.7	Tubeless	: Y
4.1.8	Standard / reinforced / T-type temporary use	: Standard
4.1.9	EMT (Extended mobility tyre)	: N
4.1.10	Ply-rating number of diagonal (bias-ply) tyres; except for T- type temporary use spare tyres	: N.A.
4.1.11	The overall dimensions: overall section width and outer	: Values per construction variant
	diameter	# Overall section width (mm) Outer diameter (mm)
		1 195 594
		2 190 596
4.1.12	The rims on which the tyre can be mounted	: 5.5 inch
4.1.13	The measuring rim and test rim	: Values per construction variant
		# Measuring rim (inch) Test rim (inch)
		1 5.5 5.5
		2 5.5 5.5
4.1.14	The test pressure where the manufacture requests the application of Annex 7 paragraph 1.3 to this Regulation	: Values per construction variant
		# Test inflation pressure (bar)
		1 N.A.
		2 N.A.
4.1.15	The factor 'x'	: 0.7
4.1.16	For tyres suitable for speeds in excess of 300 km/h, the maximum speed permitted by the tyre manufacturer and the load carrying capacity allowed for that maximum speed	: N.A.
4.1.17	The identification of the bead retention rim contours specific for the "flat tyre running mode" of "run flat tyres"	: N.A.

for the "flat tyre running mode" of "run flat tyres"

The application for approval is accompanied by drawings or

4.2

images of

- 1. The tyre tread pattern
- 2. Envelope of the inflated tyre mounted on the measuring rim, showing the relevant dimensions (see paragraphs 6.1.1 and 6.1.2)
- 3. The side wall showing the relevant markings
- 4.4 Reference to Worst-case tyre has been made for the loadspeed test. The worst case tyre selection criteria can be obtained from the approval authority.

: Y : Y

: Y

: Values per construction variant

artics per construction variant		
#	Worst case	
1	N	
2	N	

Reason(s) of extension

: Update of tyre type designation(s); Upgrade of regulation supplement number;

The applicant, as defined in article in 4.1, declares that:

- This application is in compliance with the scope as defined in chapter 1 of the regulation.
- All data for this application are unambiguously and thruthfully given.
- This application has been submitted by the duly accredited representative of the manufacturer per art 4.1 of the regulation. The underlying statement to submit on behalf of the manufacturer can be presented upon request.
- The type approval application for the subject component is submitted only at RDW as Contracting party pursuant to this UN regulation.
- · Appropriate test facility, calibrated measurement en test equipment have been used in compliance with the applicable test requirements.

Company

: IDIADA Automotive Technology S.A.Institute for Applied Automotive

Research

Josep Masip Gomez

DEPARTMENT MANAGER

QualityHomologations@idiada.com

Name of person responsible for the submitted application data

Function of above mentioned authorised person

E-mail address of department or above mentioned authorised

person

Place of submission : L'Albornar, Santa Oliva (Tarragona)

Submitted for approval on (date) : 07/06/2021 12:53:55

Reference id of the application given by the applicant