

# 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- approval withdrawn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\*115890\*02

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. Brand-name(s)/trademark(s) : 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 : 195/65R15

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 : T

4.5. Load-capacity index : 95

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\*115890\*02

applicable, test laboratory approved for

of conformity

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

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

Automotive Research L' Albornar P.O. Box 20

purposes of approval or of verification E-43710 Santa Oliva (Tarragona)

Spain

6. Date of report issued by that service : 2021-03-25

7. Number of report issued by that service : CN21030767

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

Upgrade of regulation supplement number

Update of construction variant(s)

9. Any remarks : Not applicable

10. Place : Zoetermeer

11. Date : 19 April 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.

13.

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<sup>(1)</sup> Strike out what does not apply

<sup>&</sup>lt;sup>(2)</sup> 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\*115890\*02

#### Annex 1

### 2. Tyre type designation

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

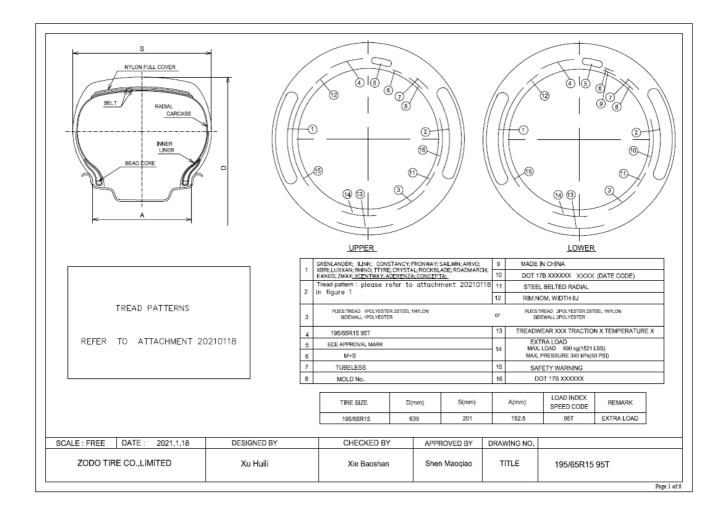
GRENLANDER; ILINK; CONSTANCY; FRONWAY; SAILWIN; ARIVO; XBRI; LUXXAN; RHINO; T TYRE; CRYSTAL; ROCKBLADE; ROADMARCH; KANGS; ZMAX; XCENTWAY; ADERENZA; CONCEPTA

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

COLO H01; L-GRIP66; LY168; ECOGREEN 66; VENUSATR 66; PREMIO ARZ1; ECOLOGY; INSPIRER C4; THREE; ROCK 515; PRIMESTAR 66; Energize; Winter GL868; Winter IL868; LY868; ICEPOWER 868; ICEWINNER 868; WINMASTER ARW2; ROCK 868S; SNOWROVER 868; THIRTY TWO; 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 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; ICEHAWKE I; SNOWGRIPPER I; ICEMASTER I; SNOWHAWKE I; Winmaster Prox ARW3; SNOWPLORER I; ICECRUISER I; Winter Xpro 888; WINTERHAWKE I; POLARSNOW; LY968; L-SNOW98; WINMASTER ARW4; INSPIRER W6; ICEPOWER 98; ICEWINNER 98; ROCK 918S; ICEPIONEER 98

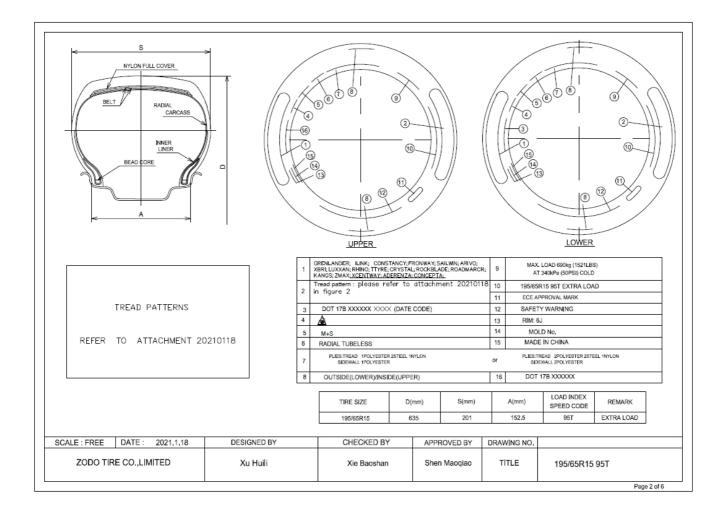


## APPENDIX 1. CONSTRUCTION IMAGE (1)



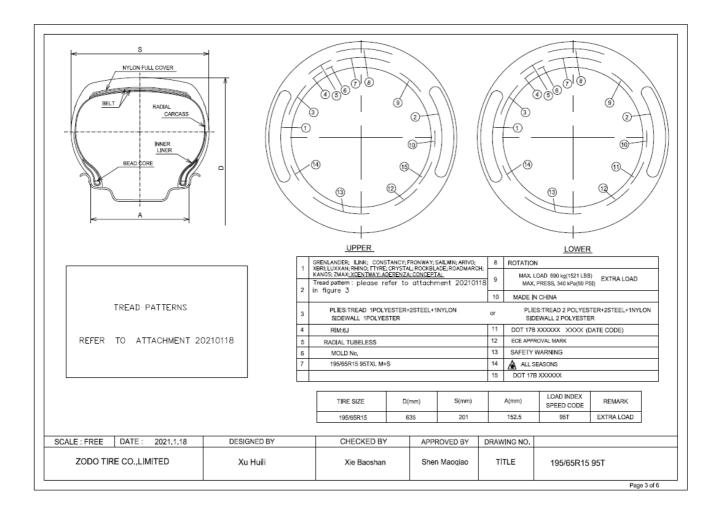
<sup>(1)</sup> The tyre marking statements are considered leading in case of deviating drawing information.

# APPENDIX 2. CONSTRUCTION IMAGE (1)



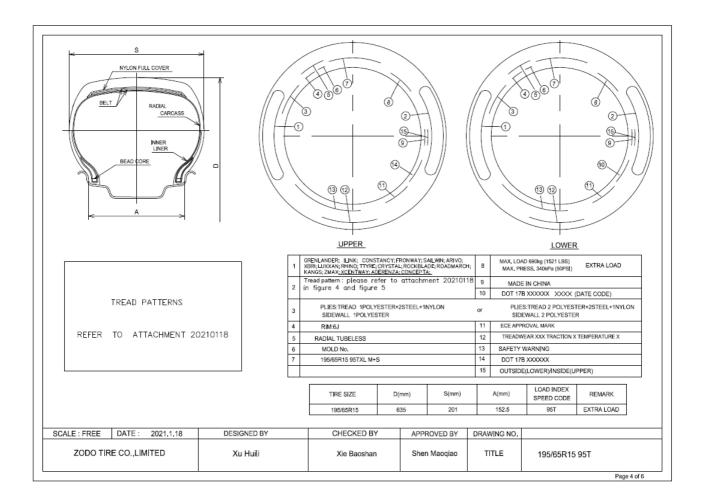
 $<sup>^{(1)}</sup>$  The tyre marking statements are considered leading in case of deviating drawing information.

## APPENDIX 3. CONSTRUCTION IMAGE (1)



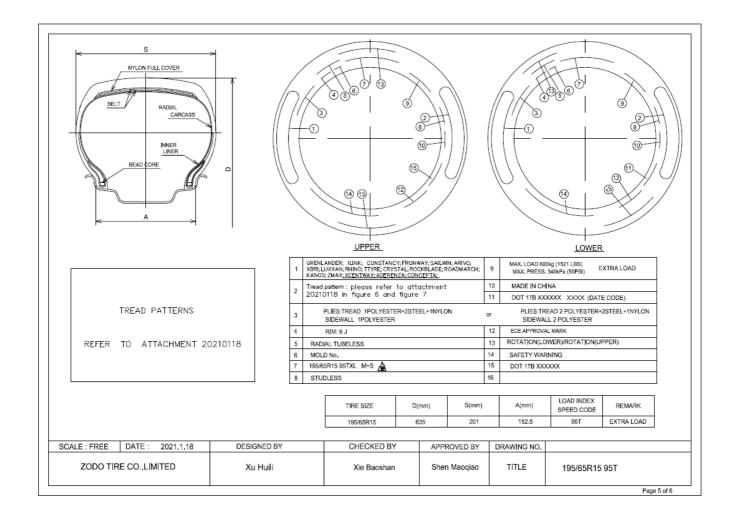
 $<sup>^{(1)}</sup>$  The tyre marking statements are considered leading in case of deviating drawing information.

# APPENDIX 4. CONSTRUCTION IMAGE (1)



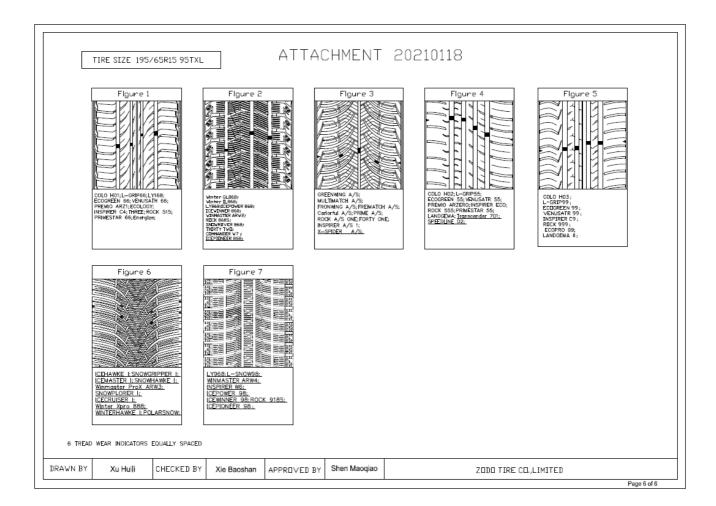
 $<sup>^{(1)}</sup>$  The tyre marking statements are considered leading in case of deviating drawing information.

### APPENDIX 5. CONSTRUCTION IMAGE (1)



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

# APPENDIX 6. CONSTRUCTION IMAGE (1)



 $<sup>^{(1)}</sup>$  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	:	<b>Date of report</b> 2021-03-25	Startdate of tests 2019-05-08	Location of test Heze, China	Reference CN21030767
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. E E-43710 Santa Ol Spain		nstitute for Applied A	Automotive
Name and address of branch office of designated technical service	:	N.A.			
Tyre size designation	:	195/65R15			
Brand-name(s) / trademark(s)	:	XBRI, LUXXAN	ILINK, CONSTANC , RHINO, T TYRE, C KANGS, ZMAX, XC	RYSTAL, ROCKBL	LADE,
Trade description(s) / commercial name(s)	:	ARZ1, ECOLOG Energize, Winter of ICEWINNER 868 THIRTY TWO, C MULTIMATCH A PRIME A/S, ROC A/S, COLO H02, ARZERO, INSPII Transcender 701, VENUSATR 99, 1 ICEHAWKE I, SN Winmaster Prox A 888, WINTERHA	RIP66, LY168, ECOG Y, INSPIRER C4, TH GL868, Winter IL868 8, WINMASTER ARV OMMANDER W7, I- L/S, FRONWING A/S EK A/S ONE, FORTY L-GRIP55, ECOGRE RER ECO, ROCK 55 SPEEDLINE D2, CO INSPIRER C9, ROCK NOWGRIPPER I, ICI ARW3, SNOWPLOR WKE I, POLARSNO RW4, INSPIRER W6, PIONEER 98	REE, ROCK 515, PI, LY868, ICEPOWE W2, ROCK 868S, SN CEPIONEER 868, CS, FREIMATCH A/S ONE, INSPIRER A EEN 55, VENUSATE 5, PRIMESTAR 55, LO H03, L-GRIP99 (C 999, ECOPRO 99, EMASTER I, SNOW ER I, ICECRUISER W, LY968, L-SNOW	RIMESTAR 66, R 868, NOWROVER 868, GREENWING A/S, , Carlorful A/S, ,/S 1, X-SPIDER R 55, PREMIO LANDGEMA, , ECOGREEN 99, LANDGEMA II, /HAWKE I, I, Winter Xpro
Category of use	:	Snow			
Structure	:	Radial			
EMT (Extended Mobility Tyre)	:	N			
Speed category symbol	:	T			
Load capacity index	:	95			
Protective rib	:	N			
Tubeless	:	Y			
Standard / reinforced / T-type temporary use	:	Reinforced			
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	:	1.92 mm			
Height of tallest tread-wear indicator	:	2.10 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 : 6.0 inch

1.1.1.2 Conditioning

Mounting pressure : 3.5 barAdjusted pressure : 2.2 barConditioning time : 24 hrsTest room temperature :  $25.0 \text{ }^{\circ}\text{C}$ Readjusted pressure : 2.2 bar

1.1.1.3 Measurements

Overall width measured : 203.6 mm

Calculated outer diameter : 633.1 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)

1.1.2.2 Test setup

Test drum diameter : 1.70 mTest rim width : 6.0 inchTest axle load : 552 kg

1.1.2.3 Conditioning

Annex 7 paragraph 1.2

Conditioning time : 3 hrs

Test room temperature : 25.0 °C

Readjusted pressure : 3.2 bar

Outer diameter before test : 634.4 mm

1.1.2.5 Test procedure

1.1.2.4

Time from zero to initial test speed : 10 min

Test steps : Stan

Step	Duration (min)	Speed (km/h)	
1.	10	150	
2.	10	160	
3.	10	170	
4.	20	180	

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 : 6 hrs

Calculated outer diameter of measured circumference after : 637.9 mm

test

### 1.2 Construction variant 2 - construction group II

### 1.2.1 MEASURING DATA (ACCORDING TO ANNEX 6)

1.2.1.1 Measuring rim width : 6.0 inch

1.2.1.2 Conditioning

Mounting pressure: 3.5 barAdjusted pressure: 2.2 barConditioning time: 24 hrsTest room temperature:  $25 ^{\circ}\text{C}$ Readjusted pressure: 2.2 bar

1.2.1.3 Measurements

Overall width measured : 200.3 mm

Calculated outer diameter : 634 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 mTest rim width : 6.0 inchTest axle load : 552 kg

1.2.2.3 Conditioning

Test inflation pressure : 3.2 barThe test inflation pressure differs from those given under : N

Annex 7 paragraph 1.2

Conditioning time : 3 hrsTest room temperature :  $25 \, ^{\circ}\text{C}$ Readjusted pressure : 3.2 bar1.2.2.4 Outer diameter before test : 634.4 mm

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	150	
2.	10	160	
3.	10	170	
4.	20	180	

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

specific test equipment and conditions

Conditioning time after test : 6 hrs Calculated outer diameter of measured circumference after : 636.3 mm

Change in outer diameter after test

: 0.3 %

: N

### 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 "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" Marked - character height >= 4 mm Y "M+S"/"M.S"/"M&S" Marked - character height >= 4 mm "ET" : N.A.

Location of the applicable mandatory markings : In lower area

Symmetrical tyres marked on both sidewalls : Y
Asymmetrical tyres marked at least on the outer tyre side wall : Y

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

: N.A.

S : 201 mm D : 635 mm A : 152.5 mm

<sup>(1)</sup> 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

ZODO TIRE CO., LIMITED 4.1 Name and address of manufacturer (applicant) 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 195/65R15 4.1.2.1 Brand-name(s) / trademark(s) GRENLANDER, ILINK, CONSTANCY, FRONWAY, SAILWIN, ARIVO, XBRI, LUXXAN, RHINO, T TYRE, CRYSTAL, ROCKBLADE, ROADMARCH, KANGS, ZMAX, XCENTWAY, ADERENZA, CONCEPTA 4.1.2.2 Trade description(s) / commercial name(s) COLO H01, L-GRIP66, LY168, ECOGREEN 66, VENUSATR 66, PREMIO ARZ1, ECOLOGY, INSPIRER C4, THREE, ROCK 515, PRIMESTAR 66, Energize, Winter GL868, Winter IL868, LY868, ICEPOWER 868, ICEWINNER 868, WINMASTER ARW2, ROCK 868S, SNOWROVER 868, THIRTY TWO, 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 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, ICEHAWKE I, SNOWGRIPPER I, ICEMASTER I, SNOWHAWKE I, Winmaster ProX ARW3, SNOWPLORER I, ICECRUISER I, Winter Xpro 888, WINTERHAWKE I, POLARSNOW, LY968, L-SNOW98, WINMASTER ARW4, INSPIRER W6, ICEPOWER 98, ICEWINNER 98, **ROCK 918S, ICEPIONEER 98** 4.1.3 Category of use Snow 4.1.3.1 For the tyres belonging to the category of use "special use N.A. tyre" those which may bear the inscription M+S or M.S or M&S 4.1.4 Structure Radial 4.1.5 Speed category symbol Т Load capacity index 4.1.6 95 4.1.7 Tubeless 4.1.8 Standard / reinforced / T-type temporary use Reinforced 4.1.9 EMT (Extended mobility tyre) 4.1.10 Ply-rating number of diagonal (bias-ply) tyres; except for T-N.A. type temporary use spare tyres 4.1.11 The overall dimensions: overall section width and outer Values per construction variant diameter Overall section width (mm) Outer diameter (mm) 203.6 1 633.1 2 200.3 634 The rims on which the tyre can be mounted 4.1.12 6.0 inch 4.1.13 The measuring rim and test rim Values per construction variant Measuring rim (inch) Test rim (inch) 1 6.0 6.0 6.0 2 6.0 4.1.14 The test pressure where the manufacture requests the Values per construction variant application of Annex 7 paragraph 1.3 to this Regulation 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 N.A. maximum speed permitted by the tyre manufacturer and the

N.A.

load carrying capacity allowed for that maximum speed

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

The identification of the bead retention rim contours specific

4.1.17

- 4.2 The application for approval is accompanied by drawings or 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

	-	
#		Worst case
1		N
2		N

Reason(s) of extension

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

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

DEPARTMENT MANAGER

QualityHomologations@idiada.com

: Josep Masip Gomez

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) : 14/04/2021 11:56:53

Reference id of the application given by the applicant