

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

COMMUNICATION

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- ~~approval withdrawn~~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*122440*01

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 : 235/55R18
 - 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 : 104

Approval number: E4*30R02/22*122440*01

- 4.6. Extended Mobility Tyre : ~~Yes~~ /No⁽¹⁾
5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : 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 : 2021-04-15
7. Number of report issued by that service : CN21040501
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 : 29 April 2021
12. Signature :


P. Lingsma

13. The list of documents in the approval file which are deposited at the administrative service having delivered the approval and which can be obtained upon request.
- 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.

⁽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*122440*01

Annex 1

2. Tyre type designation

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

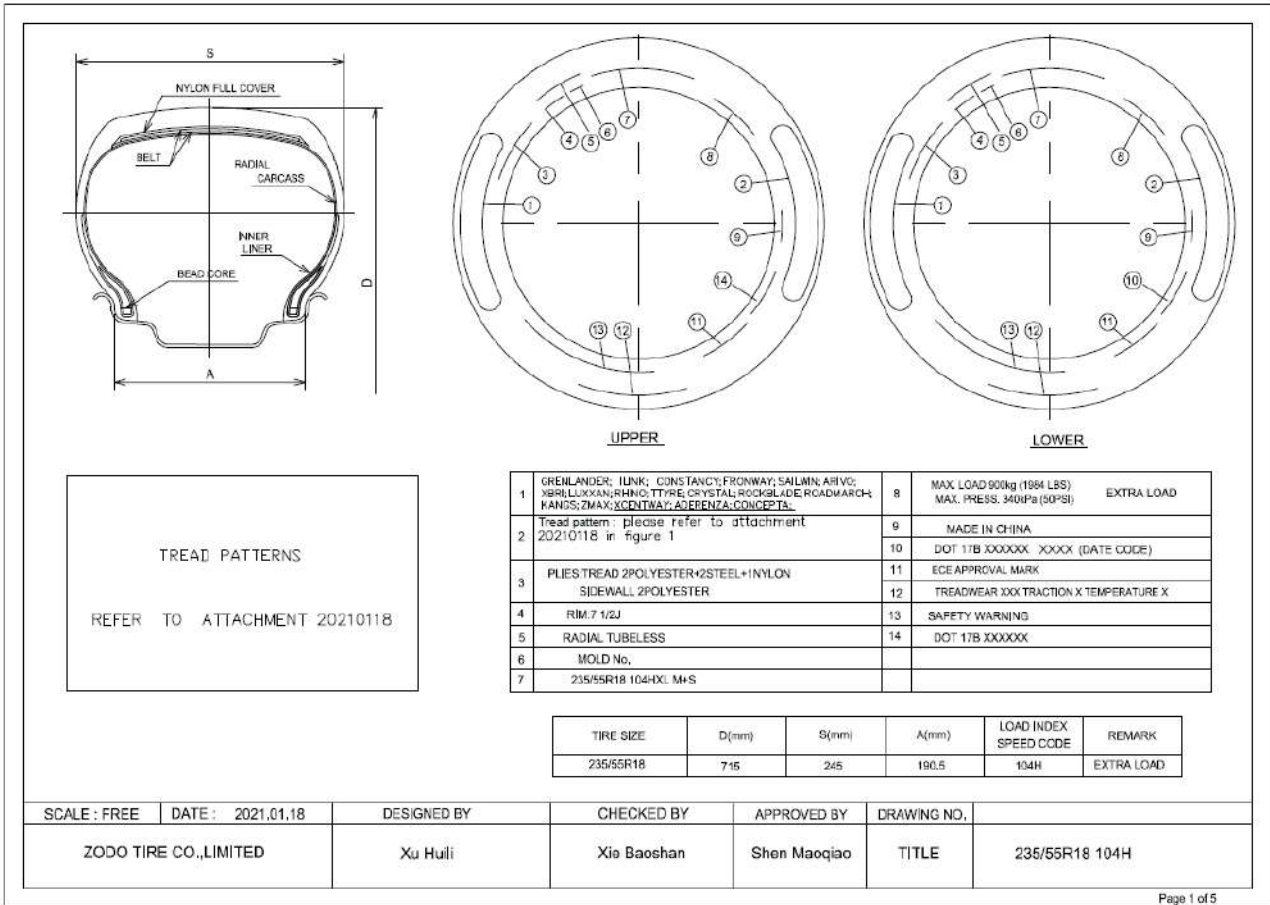
GRENLANDER; I LINK; CONSTANCY; FRONWAY; SAILWIN; ARIVO; XBRI; LUXXAN; RHINO; T TYRE; CRYSTAL; ROCKBLADE; ROADMARCH; KANGS; ZMAX; XCENTWAY; ADERENZA; CONCEPTA

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

GREENWING A/S; MULTIMATCH A/S; FRONWINGA/S; FREIMATCH A/S; Carlorful A/S; PRIME A/S; ROCK A/S ONE; FORTY ONE; INSPIRER A/S 1; X-SPIDER A/S; LY968; L-SNOW98; WINMASTERARW4; INSPIRER W6; ICEPOWER 98; ICEWINNER 98; ROCK 918S; ICEPIONEER 98; MAHO 79; POWERCITY79; ROADPOWER H/T 79; SAILKING H/T 79; TRAVERSO ARV H/T; INSPIRER F6; ROCK 719 H/T; PRIMEMARCH H/T 79; GALLOPRO H/T; Fortuner 801; ENDURANCE H/T D2; ICEHAWKE II; SNOWGRIPPER II; ICEMASTER II; SNOWHAWKEII; Winmaster ProX ARW5; SNOWPLORER II; ICECRUISER II; Winter Xpro 999; WINTERHAWKEII; POLARICE; Winter GL868; Winter IL868; LY868; ICEPOWER 868; ICEWINNER 868; WINMASTERARW2; ROCK 868S; THIRTY TWO; SNOWROVER868; COMMANDER W7; ICEPIONEER 868; ICEHAWKE I; SNOWGRIPPER I; ICEMASTER I; SNOWHAWKE I; Winmaster ProX ARW3; SNOWPLORER I; ICECRUISER I; Winter Xpro 888; WINTERHAWKE I; POLARSNOW

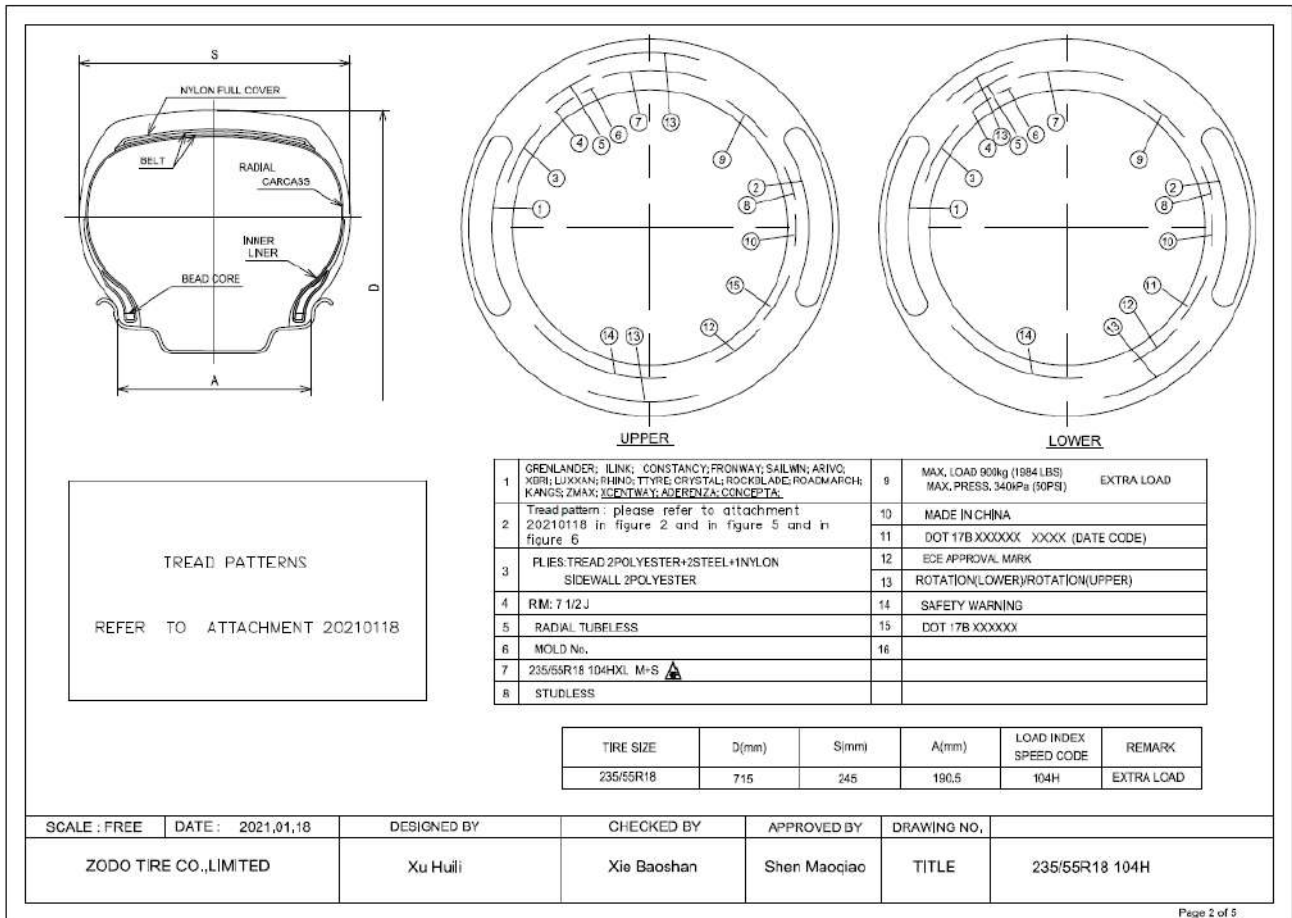


APPENDIX 1. CONSTRUCTION IMAGE (1)



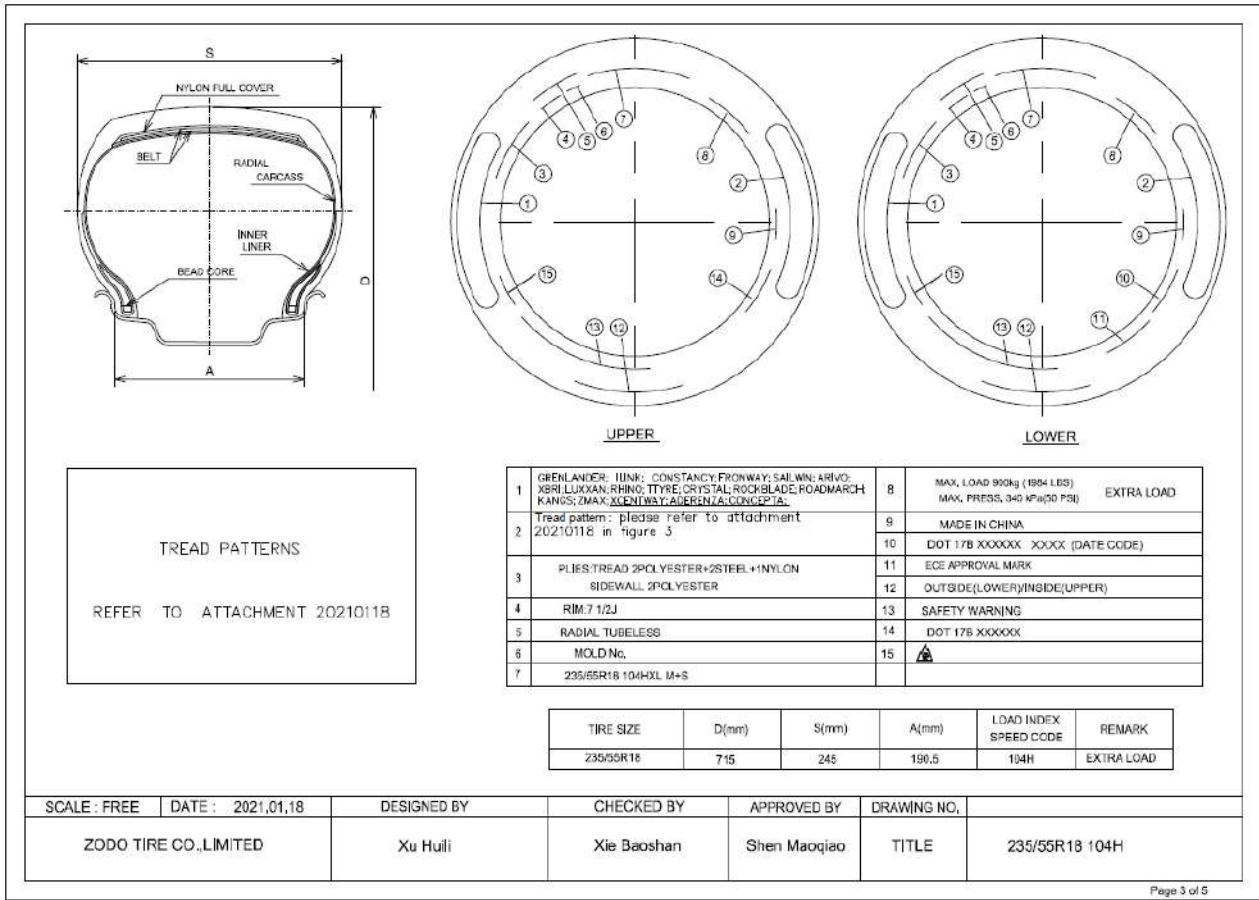
(1) The tyre marking statements are considered leading in case of deviating drawing information.

APPENDIX 2. CONSTRUCTION IMAGE (1)



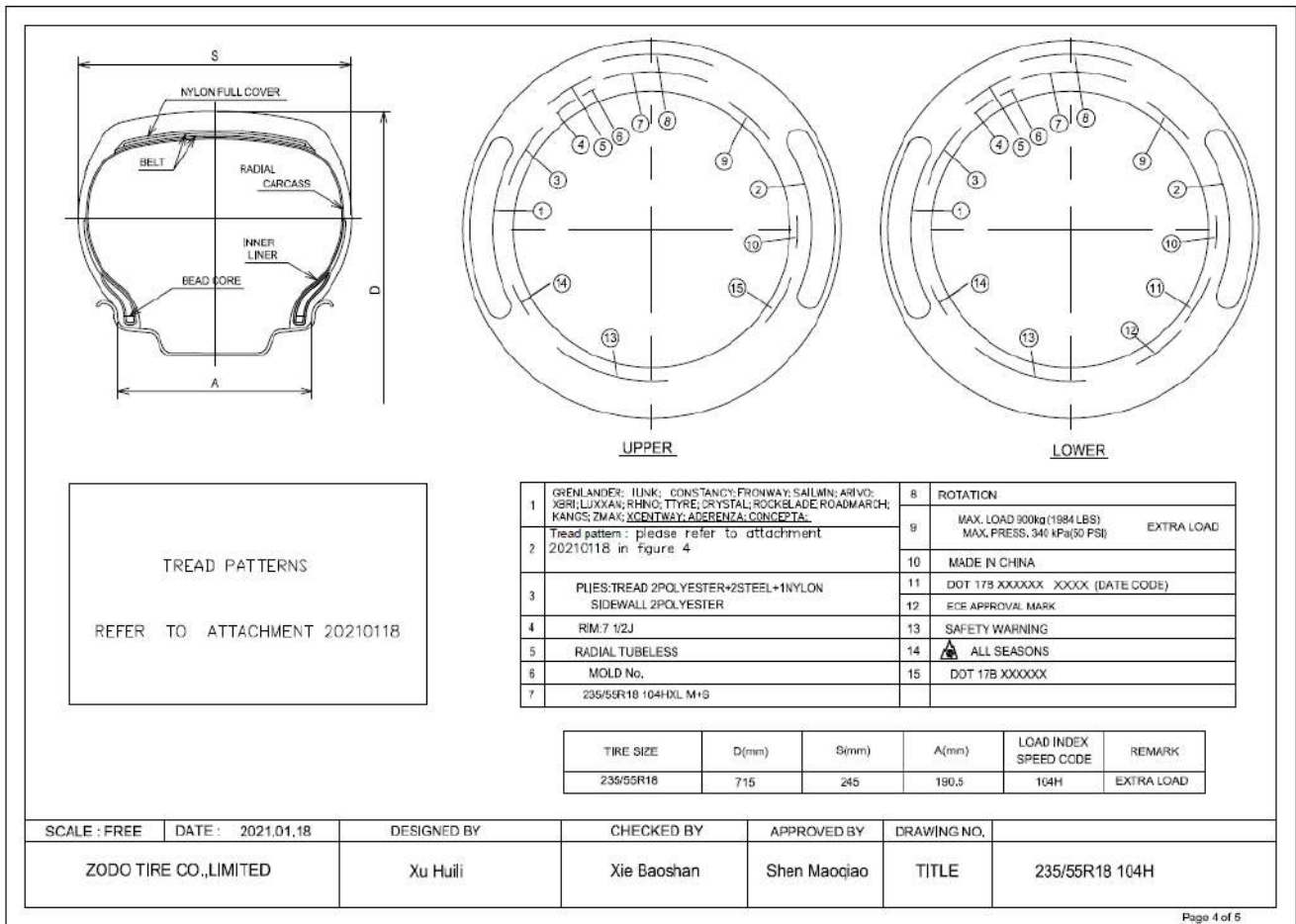
(1) The tyre marking statements are considered leading in case of deviating drawing information.

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)

TIRE SIZE 235/55R18 104HXL

ATTACHMENT 20210118

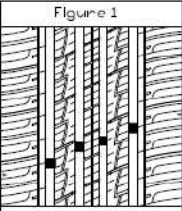


Figure 1

MMHO 79; FOWERCITY 79;
ROADPOWER H/T 79;
SALKING H/T 79;
TRAVERSO ARV H/T;
INSPIRED PR/ROCK 719 H/T;
PRIMEMATCH H/T 79;
GALLOPRO H/T; ECTHUR 801;
ENDURANCE H/T D2.

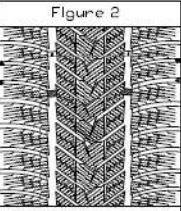


Figure 2

ICEHAWKE II;
SNOWGRIPPER II;
ICEMASTER II;
SNOWHAWKE I;
Winmaster ProX ARW3;
SNOWFLORER II;
ICECRUISER II;
Winter Xpro 899;
WINTERHAWKE II;
POLARICE.

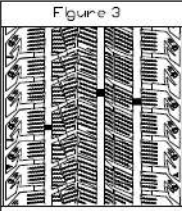


Figure 3

Winter Xpro 899;
LYNDA/CELESTY 808;
DEVINER 888; WINMASTER ARW3;
ROK 888; TRISTY TWO;
SNOWDRIVER 888; WINMASTER V7;
ICECRUISER 888.

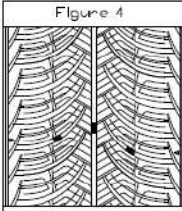


Figure 4

GREENING A/S;
MULTIMATCH A/S;
FRONING A/S; FREIMATCH A/S;
Carlorial A/S; PRIME A/S;
ROCK A/S ONE; FORTY ONE;
INSPIRE A/S 1;
X-SHIER A/S.

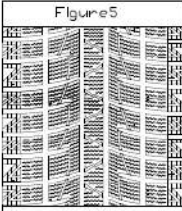


Figure 5

LY888; I-SNOW88;
WINMASTER ARW4;
INSPIRE 98;
ICEWINNER 98;
ROCK 818;
ICEPIONEER 98.

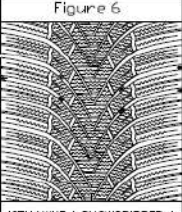


Figure 6

ICEHAWKE I; SNOWGRIPPER I;
ICEMASTER I; SNOWHAWKE I;
Winmaster ProX ARW3;
SNOWFLORER I;
ICECRUISER I;
Winter Xpro 899;
WINTERHAWKE I; POLARISNOW.

6 TREAD WEAR INDICATORS EQUALLY SPACED

DRAWN BY

Xu Huiji

CHECKED BY

Xie Baoshan

APPROVED BY

Shen Maoqiao

ZODD TIRE CO., LIMITED

Page 5 of 5

(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	:	<table border="1"> <thead> <tr> <th>Date of report</th> <th>Startdate of tests</th> <th>Location of test</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>2021-04-15</td> <td>2020-02-26</td> <td>Heze, China</td> <td>CN21040501</td> </tr> </tbody> </table>	Date of report	Startdate of tests	Location of test	Reference	2021-04-15	2020-02-26	Heze, China	CN21040501
Date of report	Startdate of tests	Location of test	Reference							
2021-04-15	2020-02-26	Heze, China	CN21040501							
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 Automotive Technology S.A.Institute for Applied Automotive Research L' Albornar P.O. Box 20 E-43710 Santa Oliva (Tarragona) Spain								
Name and address of branch office of designated technical service	:	N.A.								
Tyre size designation	:	235/55R18								
Brand-name(s) / trademark(s)	:	GRENLANDER, ILINK, CONSTANCY, FRONWAY, SAILWIN, ARIVO, XBRI, LUXXAN, RHINO, T TYRE, CRYSTAL, ROCKBLADE, ROADMARCH, KANGS, ZMAX, XCENTWAY, ADERENZA, CONCEPTA								
Trade description(s) / commercial name(s)	:	GREENWING A/S, MULTIMATCH A/S, FRONWINGA/S, FREIMATCH A/S, Carlorful A/S, PRIME A/S, ROCK A/S ONE, FORTY ONE, INSPIRER A/S 1, X-SPIDER A/S, LY968, L-SNOW98, WINMASTERARW4, INSPIRER W6, ICEPOWER 98, ICEWINNER 98, ROCK 918S, ICEPIONEER 98, MAHO 79, POWERCITY79, ROADPOWER H/T 79, SAILKING H/T 79, TRAVERSO ARV H/T, INSPIRER F6, ROCK 719 H/T, PRIMEMARCH H/T 79, GALLOPRO H/T, Fortuner 801, ENDURANCE H/T D2, ICEHAWKE II, SNOWGRIPPER II, ICEMASTER II, SNOWHAWKEII, Winmaster ProX ARW5, SNOWPLOTORER II, ICECRUISER II, Winter Xpro 999, WINTERHAWKEII, POLARICE, Winter GL868, Winter IL868, LY868, ICEPOWER 868, ICEWINNER 868, WINMASTERARW2, ROCK 868S, THIRTY TWO, SNOWROVER868, COMMANDER W7, ICEPIONEER 868, ICEHAWKE I, SNOWGRIPPER I, ICEMASTER I, SNOWHAWKE I, Winmaster ProX ARW3, SNOWPLOTORER I, ICECRUISER I, Winter Xpro 888, WINTERHAWKE I, POLARSNOW								
Category of use	:	Snow								
Structure	:	Radial								
EMT (Extended Mobility Tyre)	:	N								
Speed category symbol	:	H								
Load capacity index	:	104								
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	:	1.88 mm								
Height of tallest tread-wear indicator	:	1.96 mm								
Number of transverse rows of wear indicators	:	6								
Special use tread pattern features	:	N.A.								

1 Test data

1.1 MEASURING DATA (ACCORDING TO ANNEX 6)

1.1.1	Measuring rim width	:	7.5 inch
1.1.2	Conditioning		
	Mounting pressure	:	3.0 bar
	Adjusted pressure	:	2.2 bar
	Conditioning time	:	24 hrs
	Test room temperature	:	25.0 °C
	Readjusted pressure	:	2.2 bar

1.1.3 Measurements

Overall width measured	:	241 mm
Calculated outer diameter	:	718 mm

1.1.4 Plies of tyre subject for type approval

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

1.2 LOAD SPEED PERFORMANCE TEST (ACCORDING TO ANNEX 7)

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

1.2.2 Test setup

Test drum diameter	:	1.70 m
Test rim width	:	7.5 inch
Test axle load	:	720 kg

1.2.3 Conditioning

Test inflation pressure	:	3.2 bar
The test inflation pressure differs from those given under Annex 7 paragraph 1.2	:	N
Conditioning time	:	3 hrs
Test room temperature	:	25.0 °C
Readjusted pressure	:	3.2 bar

1.2.4 Outer diameter before test : 719 mm

1.2.5 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

1.2.6 Test results

Traces of tread separation, ply separation, cord separation, chunking or broken cords after the load/speed test	:	N
Superficial blistering after the load/speed test caused by the specific test equipment and conditions	:	N
Conditioning time after test	:	6 hrs
Calculated outer diameter of measured circumference after test	:	721 mm
Change in outer diameter after test	:	0.28 %

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 \geq 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 2	: Y
	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 \geq 6mm	: Y
	"RADIAL"	: Marked
	- character height \geq 4 mm	: Y
	"B" and "BIAS BELTED"	: N.A.
	"TUBELESS"	: Marked
	- character height \geq 4 mm	: Y
	Run flat symbol	: N.A.
	EMT (Extended mobility tyre) symbol	: N.A.
	"REINFORCED" or "EXTRA LOAD"	: Marked
	- character height \geq 4 mm	: Y
	"M+S"/"M.S"/"M&S"	: Marked
	- character height \geq 4 mm	: Y
	"ET"	: N.A.
	"POR"	: 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

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

S	: 245 mm
D	: 715 mm
A	: 190.5 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 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 service (manufacturers duly accredited representative) : N.A.
- 4.1.1 Tyre size designation : 235/55R18
- 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) : GREENWING A/S, MULTIMATCH A/S, FRONWINGA/S, FREIMATCH A/S, Carlorful A/S, PRIME A/S, ROCK A/S ONE, FORTY ONE, INSPIRER A/S 1, X-SPIDER A/S, LY968, L-SNOW98, WINMASTERARW4, INSPIRER W6, ICEPOWER 98, ICEWINNER 98, ROCK 918S, ICEPIONEER 98, MAHO 79, POWERCITY79, ROADPOWER H/T 79, SAILKING H/T 79, TRAVERSO ARV H/T, INSPIRER F6, ROCK 719 H/T, PRIMEMARCH H/T 79, GALLOPRO H/T, Fortuner 801, ENDURANCE H/T D2, ICEHAWKE II, SNOWGRIPPER II, ICEMASTER II, SNOWHAWKEII, Winmaster ProX ARW5, SNOWPLOTOR I, ICECRUISER II, Winter Xpro 999, WINTERHAWKEII, POLARICE, Winter GL868, Winter IL868, LY868, ICEPOWER 868, ICEWINNER 868, WINMASTERARW2, ROCK 868S, THIRTY TWO, SNOWROVER868, COMMANDER W7, ICEPIONEER 868, ICEHAWKE I, SNOWGRIPPER I, ICEMASTER I, SNOWHAWKE I, Winmaster ProX ARW3, SNOWPLOTOR I, ICECRUISER I, Winter Xpro 888, WINTERHAWKE I, POLARSNOW
- 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 : H
- 4.1.6 Load capacity index : 104
- 4.1.7 Tubeless : Y
- 4.1.8 Standard / reinforced / T-type temporary use : Reinforced
- 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 diameter
- Overall section width : 241 mm
- Outer diameter : 718 mm
- 4.1.12 The rims on which the tyre can be mounted : 7.5 inch
- 4.1.13 Measuring rim : 7.5 inch
- Test rim : 7.5 inch
- 4.1.14 The test pressure where the manufacture requests the application of Annex 7 paragraph 1.3 to this Regulation : 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.
- 4.2 The application for approval is accompanied by drawings or images of
1. The tyre tread pattern : Y
2. Envelope of the inflated tyre mounted on the measuring rim, showing the relevant dimensions (see paragraphs 6.1.1 and 6.1.2) : Y
3. The side wall showing the relevant markings : Y

4.4 Reference to Worst-case tyre has been made for the load-speed test. The worst case tyre selection criteria can be obtained from the approval authority.

: 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 truthfully 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
Name of person responsible for the submitted application data : Josep Masip Gomez
Function of above mentioned authorised person : DEPARTMENT MANAGER
E-mail address of department or above mentioned authorised person : QualityHomologations@idiada.com
Place of submission : L'Albornar, Santa Oliva (Tarragona)
Submitted for approval on (date) : 21/04/2021 11:04:33
Reference id of the application given by the applicant :