



THE NETHERLANDS

COMMUNICATION

Concerning ⁽¹⁾:

- ~~approval granted~~
- ~~approval extended~~
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of tyre with regard to 'rolling sound emission level' and/or 'adhesion performance on wet surfaces' and/or 'rolling resistance' pursuant to UN Regulation number 117.

Approval number ⁽²⁾: E4*117R02/14*6598*17**Suffix(es) ⁽³⁾: 02S2WR2**

- | | | |
|--------|---|---|
| 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. | If applicable, name and address of
manufacturer's representative | : Not applicable |
| 3. | "Tyre class" of the type of tyre | : Class C1/ Class C2 / Class C3 |
| 4. | "Category of use" of the type of tyre | : Normal / snow / special |
| 4.1. | Snow tyre for use in severe snow
conditions | : yes /no ⁽¹⁾ |
| 4.1.1. | Ice grip tyre | : yes /no ⁽¹⁾ |
| 4.2. | Traction tyre | : yes /no ⁽¹⁾ |
| 5. | Tyre structure | : Diagonal / Bias belted / Radial |
| 6. | Type of tyre designation | : |
| 6.1. | Brand name(s)/trademark(s) of the
type of tyre | : GRENLANDER or ILINK or LUXXAN or
ARIVO or CRYSTAL or ROCKBLADE or
FRONWAY or XBRI or ROADMARCH or
ZMAX or XCENTWAY or ADERENZA or
CONCEPTA or SAILWIN or <u>SONIX</u> |



- 6.2. Trade description(s)/commercial name(s) of the type of tyre : LY566 or L-ZEAL56 or INSPIRER S4 or ULTRA ARZ5 or Drift or SPORTWAY 56 or SPORT+ or SPEEDWAY 56 or ROCK 566 or PERFORM
7. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity tests : TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München
8. Performance(s) approved : sound level at (~~stage 1~~/stage 2)⁽¹⁾, wet adhesion level, rolling resistance level (~~stage 1~~/stage 2)⁽¹⁾
- 8.1. Sound level of the representative tyre size(315/35ZR21 111W XL), see paragraph 2.7. of this Regulation, as per item 7. of the test report in Appendix 1 to Annex 3: 72 dB(A) at reference speed of ~~70~~80 km/h⁽¹⁾.
- 8.2. Wet adhesion level of the representative tyre size(205/55R16 91W), see paragraph 2.7. of this Regulation, as per the test report examples shown in the appendix to Annex 5: 1.32 (G) using the ~~vehicle~~ or trailer method⁽¹⁾.
- 8.3. Rolling resistance level of the representative tyre size(205/55R16 91W), see paragraph 2.7. of this Regulation, as per item 7. of the test report in Appendix 1 to Annex 6: 8.774 N/kN
- 8.4. Snow performance level of the representative tyre size, see paragraph 2.7. of Regulation No. 117, as per item 7. of the test report in the appendix⁽⁴⁾ to Annex 7: (Snow grip index) using the brake on snow method⁽¹⁾, spin traction method⁽¹⁾ or acceleration method⁽¹⁾.
- 8.4.1. Ice performance level of the representative tyre size, see paragraph 2.7. of Regulation No. 117, as per item 7. of the test report in the appendix 2 to Annex 8:.....(ice grip index) using the brake on ice method⁽¹⁾.
9. Number of report issued by that service : 86-R117-4227/18-00;
CN21050588;
22-00948-CX-SHA-01;
22-00948-CX-SHA-02
10. Date of report issued by that service : 2018-12-20;
2021-05-27;
2022-12-21;
2023-06-08
11. Reason(s) of extension (if applicable) : Addition of trade mark and tyre size
12. Any remarks : Wet grip test in the test report part based on the test procedures in Annex 5 of Supplement 12 to the 02 series of amendments to this Regulation.



13. Place : Zoetermeer
14. Date : 27 June 2023
15. Signature :



T. H. K. Spatz

16. Annexed to this communication are:
- 16.1. A list of documents in the approval file deposited at the Type Approval Authorities having delivered the approval and which can be obtained upon request ⁽³⁾.
- 16.2. A list of tyre size designations: Specify for each brand name/trademark and/or each trade description/commercial name the list of tyre size designations and service descriptions, adding in case of class C1 tyres whether "reinforced" (or "extra load") or not.

⁽¹⁾ Strike out what does not apply.

⁽²⁾ According to Schedule 4 to Revision 3 of the 1958 Agreement.

⁽³⁾ In the case of "snow tyre for use in severe snow conditions" a test report according to Appendix 2 or Appendix 3, as applicable, to Annex 7 shall be submitted

⁽⁴⁾ Appendix 2 for C1 and C2 tyres.
Appendix 3 for C3 tyres.

Test report No.: 22-00948-CX-SHA-02
Manufacturer: ZODO TIRE CO., LIMITED.
Type: LY566



Test Report

No.: 22-00948-CX-SHA-02

Test of a type of component
with regard to UN/ECE Regulation No.

117

including all amendments up to
supplement 14 to the 02 series

Approval subject:

pneumatic tyres

**with regard to rolling sound emissions and/or to adhesion on wet surfaces and/or to
rolling resistance**

Stage of completion:

N/A

Approval status	
☐	Granting of a type approval
☒	Extension/ correction to type approval no. : E4*117R02/14*6598*16

I. General

Name and address of manufacturer : ZODO TIRE CO., LIMITED.
The South of Yalujiang Road, Wenzhuang Village,
Qinghe Agency of Cao County, Heze City,
Shandong Province 274400, China(PRC)

Brand name(s)/trademark(s) : GRENLANDER or ILINK or LUXXAN or
ARIVO or CRYSTAL or ROCKBLADE or
FRONWAY or XBRI or ROADMARCH or
ZMAX or XCENTWAY or ADERENZA or
CONCEPTA or SAILWIN or SONIX

Trade description (s)/Commercial
name(s) : LY566 or L-ZEAL56 or INSPIRER S4 or ULTRA
ARZ5 or Drift or SPORTWAY 56 or SPORT+ or
SPEEDWAY 56 or ROCK 566 or PERFORM

Name and address of representative: : Not applicable

Tyre class: : C1/~~C2~~/C3

Category of use : ~~Normal/snow~~(snow tyre for use in severe snow
conditions)/~~special~~

Location of the approval mark: : On the sidewall

II. Test results

Refer to the Annex II

III. Enclosures

Information document No. 026598-S2WR2-17 dated 2023-05-22 (yyyy-mm-dd)

IV. Statement of conformity

The mentioned information folder and the type described therein are in accordance with the test basis mentioned above. Sampling plan or method result from the requirements of the test basis. The worst-case configuration was selected in accordance with process description "Requirements for Test Reports (AS-PB-T-02)". Valid decision rule in accordance with ILAC G8:2019, 4.2.1: in question of meeting the limits the measurement uncertainty was ignored.

Test report No.: 22-00948-CX-SHA-02
Manufacturer: ZODO TIRE CO., LIMITED.
Type: LY566

The manufacturer is responsible for the information (III.) and the test specimens provided by him. The test results relate only to the test specimens as received and mentioned (II.). The test specimens are representative for the type described (III.).

The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

TÜV SÜD Auto Service GmbH is designated as Technical Service by:

Approval authority	Country	Registration number
Kraftfahrt-Bundesamt (KBA)	Germany	KBA-P 00100-10
Vehicle Certification Agency (VCA)	United Kingdom	VCA-TS-006
Approval Authority of the Netherlands (RDW)	The Netherlands	RDWT-082-xx
National Standards Authority of Ireland (NSAI)	Ireland	Technical Service Number: 49
Société Nationale de Certification et d'Homologation (SNCH)	Luxembourg	13/B(g)
Swedish Transport Agency (STA)	Sweden	TT 0024

München, 2023-06-08 (yyyy-mm-dd)



Xiaopeng Li



Auto Service

Test report No.: 22-00948-CX-SHA-02
Manufacturer: ZODO TIRE CO., LIMITED.
Type: LY566

Annex I Reason of Extension

Correction of : ---

Modification of : ---

Addition of : Trade mark and tyre size

Deletion of : ---

Annex II Test results

1. Worst case selection and test results

Tire size for rolling sound emission:	315/35ZR21 111W XL 72 dB(A)
Because of:	The largest nominal section and lowest aspect ratio and largest rim diameter
Tire size for wet grip:	205/55R16 91W 1.32 G
Because of:	The wet grip test result of 205/55R16 91W is G=1.32, which is 110% above the limit value of ECE R117.
Tire size for rolling resistance:	205/55R16 91W 8.774 N/KN
Because of:	The tyre type having lowest load capacity index is 165/40R17 72V, the test tyre type is 205/55R16 91W, the RRC test result is 8.774 N/KN, less than the calculated limit value: $10.5 - 0.3 - 0.06 \times (91 - 72) = 9.06$ N/KN
Tire size for snow grip:	---
Because of:	---

2. Rolling sound emission test

2.1. Description of the test object

Trade mark and tread pattern:	GRENLANDER / L-ZEAL56
Tyre type:	315/35ZR21 111W
Category of use	Normal/snow (snow tyre for use in severe snow conditions)/special
Structure:	Diagonal/bias belted/radial/run flat tyre
Indication:	Tubeless/tube type
Indication:	Standard/reinforced/ T-type temporary use spare tyre
Date code of manufacture:	0421

2.2/2.3 Test conditions/ Test results

The extension has no negative influence to the test results for rolling sound emission in approval with No.: E4*117R02/12*6598*14 and the relevant test report with No.CN21050588 was issued by IDIADA Automotive Technology, S.A.. Therefore, the results are remaining valid.

3. Wet grip

3.1. Description of the test object

Trade mark and tread pattern: CONSTANCY / LY566

Tyre type: 205/55R16 91W

Category of use: Normal/snow(~~snow tyre for use in severe snow conditions~~)/special

Structure: Diagonal/~~bias belted~~/radial/run flat tyre

Indication: Tubeless/~~tube type~~

Indication: Standard/~~reinforced~~/
~~T-type temporary use spare tyre~~

Date code of manufacture: 0512

3.2/3.3 Test conditions/ Test results

The extension has no negative influence to the test results for wet grip in approval with No.: E4*117R02/09*6598*09 and the relevant test report with No.86-R117-4227/18-00 was issued by TÜV Rheinland Kraftfahrt GmbH. Therefore, the results are remaining valid.

4. Rolling resistance

4.1. Description of the test object

Trade mark and tread pattern: CONSTANCY / LY566

Tyre type: 205/55R16 91W

Category of use: Normal/snow(~~snow tyre for use in severe snow conditions~~)/special

Structure: Diagonal/~~bias belted~~/radial/run flat tyre

Indication: Tubeless/~~tube type~~

Indication: Standard/~~reinforced~~/
~~T-type temporary use spare tyre~~

Date code of manufacture: 4914

4.2/4.3 Test conditions/ Test results

The extension has no negative influence to the test results for rolling resistance in approval with No.: E4*117R02/09*6598*09 and the relevant test report with No.86-R117-4227/18-00 was issued by TÜV Rheinland Kraftfahrt GmbH. Therefore, the results are remaining valid

5. Remark

Remarks concerning extension : Not applicable

**RELATING TO ECE TYPE-APPROVAL FOR A TYPE OF TYRE WITH REGARD TO ROLLING SOUND EMISSIONS AND TO ADHESION PERFORMANCE ON WET SURFACES AND/OR TO ROLLING RESISTANCE
(ECE Regulation No. 117. 02, Supplement 14)**

1. GENERAL
- 1.1. The performance characteristics to be assessed for the tyre type : rolling sound emission level and adhesion performance level on wet surfaces and rolling resistance
- 1.2. Manufacturer's name : ZODO TIRE CO., LIMITED
- 1.3. Name and address of applicant : The South of Yalujiang Road, Wenzhuang Village, Qinghe Agency of Cao County, Heze City, Shandong Province 274400 China (PRC)
- 1.4. Address(es) of manufacturing plant(s) : same with the applicant
- 1.5. Brand name(s), Trade description(s) or Trade mark(s) to be used for particular tyre type-approval requested : Brand name: GRENLANDER; ILINK; LUXXAN; ARIVO; CRYSTAL; ROCKBLADE; FRONWAY; XBRI; ROADMARCH; ZMAX; XCENTWAY; ADERENZA; CONCEPTA; SAILWIN; SONIX; Tread pattern: LY566; L-ZEAL56; INSPIRER S4; ULTRA ARZ5; Drift; SPORTWAY 56; SPORT+; SPEEDWAY 56; ROCK 566; PERFORM;
2. Tyre
- 2.1. Tyre classification (class C1, C2, C3) : Class C1 / ~~Class C2~~ / ~~Class C3~~
- 2.2. Section width range for class C1 tyres : see attached "list of tyre size"
- 2.3. Tyre structure : ~~diagonal~~ / ~~bias belted~~ / radial
- 2.4. For Class C1 tyres, state weather :
- 2.4.1. Reinforced (or extra load) in case of approval with regarding to rolling sound emission level : see attached "list of tyre size"
- 2.4.2. Speed category symbol "Q" or below (not including "H") or "R" and above (including "H") in case of snow tyres for approval with regarding to adhesion on wet surfaces : not applicable
- 2.5. For Class C2 or C3 tyres, state weather "Traction tyre" : ~~Yes~~ / No
- 2.6. Category of use (normal, snow, special) : ~~normal~~ / snow (snow tyre for use in severe snow conditions) / ~~special~~
- 2.7. A list of tyre designations covered by this application : see attached "list of tyre size"
- 2.8. Details of major features, with respect to the effects on tyre performance (i.e. rolling emission level or adhesion on wet surfaces, respectively) of the tread pattern(s) to be used on the designated range of tyre sizes. : see attached "drawing of tread pattern"
- 2.9. In the case of "special use tyre", drawing of the tread pattern supplied in order to verify the void-to-fill ratio. not applicable
- 2.10. Submitted for approval on (date) May 22, 2023

MANUFACTURER'S STAMP



Signature:

Ren Hailong

Name: Ren Hailong

THIS APPLICATION IS ACCOMPANIED BY:

- List of tyre size
- Drawing of tread pattern
- The test report

List of tyre size

Brand name(s) or Trade mark(s) : GRENLANDER; ILINK; LUXXAN; ARIVO; CRYSTAL;
ROCKBLADE; FRONWAY; XBRI; ROADMARCH; ZMAX;
XCENTWAY; ADERENZA; CONCEPTA; SAILWIN; SONIX;

Tread pattern : LY566; L-ZEAL56; INSPIRER S4; ULTRA ARZ5; Drift;
SPORTWAY 56; SPORT+; SPEEDWAY 56; ROCK 566;
PERFORM;

Tyre size	Approval No.	Limit for rolling sound dB(A) of Stage II	Limit for wet grip index	Limit for rolling resistance coefficient N/KN of Stage II
205/55R16 91W	E4-0278375	71dB(A)	1.1	10.5
215/55R16 93W	E4-0278376	71dB(A)	1.1	10.5
215/45R17 91W XL	E4-0278377	72dB(A)	1.1	10.5
215/55R17 94W	E4-0278378	71dB(A)	1.1	10.5
225/45R17 94W XL	E4-0278379	72dB(A)	1.1	10.5
205/50R17 93W XL	E4-0278380	72dB(A)	1.1	10.5
235/55R17 99V	E4-0278381	71dB(A)	1.1	10.5
225/50R17 94W	E4-0278382	71dB(A)	1.1	10.5
225/55R17 97V	E4-0278383	71dB(A)	1.1	10.5
235/45R17 97W XL	E4-0278384	72dB(A)	1.1	10.5
225/45R18 95W XL	E4-0278385	72dB(A)	1.1	10.5
255/55R18 105V	E4-0278386	72dB(A)	1.1	10.5
245/45R18 100W XL	E4-0278387	72dB(A)	1.1	10.5
225/40R18 92W XL	E4-0278388	72dB(A)	1.1	10.5
235/40R18 95W XL	E4-0278389	72dB(A)	1.1	10.5
245/40R18 97W XL	E4-0278390	72dB(A)	1.1	10.5
235/35R19 91W XL	E4-0278391	72dB(A)	1.1	10.5
245/35R19 93W XL	E4-0278392	72dB(A)	1.1	10.5
245/35R20 95W XL	E4-0278393	72dB(A)	1.1	10.5
205/50R16 91W XL	E4-0284573	72dB(A)	1.1	10.5
205/40R17 84W XL	E4-0288760	72dB(A)	1.1	10.5
215/40R17 83W	E4-0288761	71dB(A)	1.1	10.5
205/45R17 84W	E4-0288762	71dB(A)	1.1	10.5
215/50R17 95W XL	E4-0285994	72dB(A)	1.1	10.5
235/50R18 97V	E4-0289816	71dB(A)	1.1	10.5
225/35R19 84W	E4-0288763	71dB(A)	1.1	10.5
225/55R16 99W XL	E4-0288764	72dB(A)	1.1	10.5
215/55R16 97W XL	E4-0285993	72dB(A)	1.1	10.5
225/50R17 98W XL	E4-0285995	72dB(A)	1.1	10.5
215/40R18 89W XL	E4-0289817	72dB(A)	1.1	10.5
215/45R18 93W XL	E4-0289818	72dB(A)	1.1	10.5
195/50R16 84V	E4-0290154	71dB(A)	1.1	10.5
245/45R19 98W	E4-0292896	71dB(A)	1.1	10.5
215/35R18 84W XL	E4-0290157	72dB(A)	1.1	10.5
205/45R16 87W XL	E4-0290153	72dB(A)	1.1	10.5
195/45R16 84V XL	E4-0290152	72dB(A)	1.1	10.5
195/45R16 84W XL	E4-0294468	72dB(A)	1.1	10.5
205/50R16 87W	E4-0295085	71dB(A)	1.1	10.5
205/55R16 94W XL	E4-0295086	72dB(A)	1.1	10.5
225/55R17 101W XL	E4-0295087	72dB(A)	1.1	10.5
235/55R17 103W XL	E4-0295088	72dB(A)	1.1	10.5
255/35R19 96W XL	E4-0290156	73dB(A)	1.1	10.5

255/35R20 97W XL	E4-0297647	73dB(A)	1.1	10.5
205/45R17 88W XL	E4-0296293	72dB(A)	1.1	10.5
235/45R19 95W	E4-0298621	71dB(A)	1.1	10.5
255/45R19 100W	E4-0298622	72dB(A)	1.1	10.5
255/50R19 103V	E4-0298623	72dB(A)	1.1	10.5
225/35R20 90W XL	E4-0298624	72dB(A)	1.1	10.5
235/35R20 92W XL	E4-0298625	72dB(A)	1.1	10.5
195/40R17 81V XL	E4-0298626	72dB(A)	1.1	10.5
195/40R17 81W XL	E4-0298627	72dB(A)	1.1	10.5
215/55R18 99W XL	E4-02103354	72dB(A)	1.1	10.5
235/55R18 100V	E4-02109496	71dB(A)	1.1	10.5
255/45R18 99W	E4-02109498	72dB(A)	1.1	10.5
235/50R17 100W XL	E4-0297654	72dB(A)	1.1	10.5
245/40R17 95W XL	E4-0297655	72dB(A)	1.1	10.5
245/45R17 99W XL	E4-0297656	72dB(A)	1.1	10.5
225/55R18 102W XL	E4-0297657	72dB(A)	1.1	10.5
235/45R18 98W XL	E4-0297658	72dB(A)	1.1	10.5
255/35ZR18 94W XL	E4-0297663	73dB(A)	1.1	10.5
265/35ZR18 97W XL	E4-0297664	73dB(A)	1.1	10.5
285/35ZR18 101W XL	E4-0297665	75dB(A)	1.1	10.5
235/55R19 105V XL	E4-0297667	72dB(A)	1.1	10.5
225/55R19 99V	E4-0297666	71dB(A)	1.1	10.5
265/30ZR19 93W XL	E4-0297668	73dB(A)	1.1	10.5
275/30ZR19 96W XL	E4-0297669	73dB(A)	1.1	10.5
245/40ZR20 99W XL	E4-0297672	72dB(A)	1.1	10.5
275/35ZR20 102W XL	E4-0297673	73dB(A)	1.1	10.5
275/30R20 97W XL	E4-0297659	73dB(A)	1.1	10.5
225/30ZR20 85W XL	E4-0297670	72dB(A)	1.1	10.5
285/30ZR20 99W XL	E4-0297671	75dB(A)	1.1	10.5
235/30R22 90W XL	E4-0297660	72dB(A)	1.1	10.5
245/30R22 92W XL	E4-0297661	72dB(A)	1.1	10.5
255/30R22 95W XL	E4-0297662	73dB(A)	1.1	10.5
265/30ZR22 97W XL	E4-0297674	73dB(A)	1.1	10.5
295/25ZR22 97W XL	E4-0297675	75dB(A)	1.1	10.5
255/30ZR24 97W XL	E4-0297676	73dB(A)	1.1	10.5
235/50R19 103V XL	E4-02114017	72dB(A)	1.1	10.5
245/55R19 103V	E4-02114016	71dB(A)	1.1	10.5
235/55R19 101V	E4-02114413	71dB(A)	1.1	10.5
165/40R17 72V	E4-02114005	70dB(A)	1.1	10.5
185/35R17 82V	E4-02114006	70dB(A)	1.1	10.5
185/35R18 83V	E4-02114007	70dB(A)	1.1	10.5
235/50R17 100V	E4-02114008	72dB(A)	1.1	10.5
215/55R18 99V XL	E4-02114009	72dB(A)	1.1	10.5
225/55R18 102V	E4-02114010	72dB(A)	1.1	10.5
235/55R18 104V	E4-02114011	72dB(A)	1.1	10.5
245/50ZR18 104W XL	E4-02114012	72dB(A)	1.1	10.5
255/45ZR18 103W XL	E4-02114013	73dB(A)	1.1	10.5
255/55R18 109V XL	E4-02114014	73dB(A)	1.1	10.5
205/35R20 84V XL	E4-02114015	72dB(A)	1.1	10.5
245/45R19 102W XL	E4-0297230	72dB(A)	1.1	10.5
215/55R17 98W XL	E4-0297234	72dB(A)	1.1	10.5
215/40R17 87WXL	E4-02114298	72dB(A)	1.1	10.5
275/35R18 99WXL	E4-02114317	73dB(A)	1.1	10.5
255/40R18 99WXL	E4-02114301	73dB(A)	1.1	10.5

255/30ZR19 91YXL	E4-02114328	73dB(A)	1.1	10.5
275/35ZR19100YXL	E4-02114318	73dB(A)	1.1	10.5
255/40ZR19 100WXL	E4-02114302	73dB(A)	1.1	10.5
275/40ZR19 105WXL	E4-02114303	73dB(A)	1.1	10.5
255/45ZR19 104WXL	E4-02114310	73dB(A)	1.1	10.5
285/45R19 111VXL	E4-02114314	75dB(A)	1.1	10.5
255/50R19 107VXL	E4-02114326	73dB(A)	1.1	10.5
265/45ZR21 108WXL	E4-02114311	73dB(A)	1.1	10.5
275/45ZR21 110WXL	E4-02114312	73dB(A)	1.1	10.5
295/35ZR21 107WXL	E4-02114319	75dB(A)	1.1	10.5
295/40ZR21 111WXL	E4-02114305	75dB(A)	1.1	10.5
235/50ZR19 103W XL	E4-02114325	72dB(A)	1.1	10.5
225/50ZR16 96W XL	E4-02114324	72dB(A)	1.1	10.5
245/55R19 107V XL	E4-02114322	72dB(A)	1.1	10.5
205/55ZR17 95W XL	E4-02114320	72dB(A)	1.1	10.5
225/35ZR19 88W XL	E4-02114316	72dB(A)	1.1	10.5
215/35ZR19 85W XL	E4-02114315	72dB(A)	1.1	10.5
235/45ZR19 99W XL	E4-02114309	72dB(A)	1.1	10.5
225/45ZR19 96W XL	E4-02114308	72dB(A)	1.1	10.5
215/45R16 90V XL	E4-02114307	72dB(A)	1.1	10.5
195/45ZR17 85W XL	E4-02114306	72dB(A)	1.1	10.5
245/40ZR19 98W XL	E4-02114300	72dB(A)	1.1	10.5
235/40ZR19 96W XL	E4-02114299	72dB(A)	1.1	10.5
215/40ZR16 86W XL	E4-02114297	72dB(A)	1.1	10.5
255/55R19 111V XL	E4-02109504	73dB(A)	1.1	10.5
265/50R20 111V XL	E4-02109505	73dB(A)	1.1	10.5
275/45R20 110V XL	E4-0297777	73dB(A)	1.1	10.5
275/55R20 117V XL	E4-0298611	73dB(A)	1.1	10.5
275/60R20 119H XL	E4-0298610	73dB(A)	1.1	10.5
285/50R20 116V XL	E4-02100341	75dB(A)	1.1	10.5
195/45R15 82V XL	E4-02125242	72dB(A)	1.1	10.5
255/60R17 110V XL	E4-02125243	73dB(A)	1.1	10.5
225/50ZR18 99W XL	E4-02125244	72dB(A)	1.1	10.5
255/50R18 106V XL	E4-02125245	73dB(A)	1.1	10.5
265/40ZR18 101W XL	E4-02125246	73dB(A)	1.1	10.5
275/40ZR18 103W XL	E4-02125247	73dB(A)	1.1	10.5
225/40ZR19 93W XL	E4-02125248	72dB(A)	1.1	10.5
265/50ZR19 110W XL	E4-02125249	73dB(A)	1.1	10.5
235/55ZR20 105W XL	E4-02125250	72dB(A)	1.1	10.5
245/45ZR20 103W XL	E4-02125251	72dB(A)	1.1	10.5
245/30ZR20 95W XL	E4-02125252	72dB(A)	1.1	10.5
255/30ZR20 92Y XL	E4-02125253	73dB(A)	1.1	10.5
255/45ZR20 105W XL	E4-02125220	73dB(A)	1.1	10.5
255/60R18 112H XL	E4-02109500	73dB(A)	1.1	10.5
255/60R18 112T XL	E4-02109499	73dB(A)	1.1	10.5
305/35R20 107V XL	E4-02125221	75dB(A)	1.1	10.5
255/40ZR18 99W XL	E4-02114301	73dB(A)	1.1	10.5
265/50R19 110V XL	E4-02126674	73dB(A)	1.1	10.5
275/45R19 108V XL	E4-02126857	73dB(A)	1.1	10.5
275/55R19 111V	E4-02126858	72dB(A)	1.1	10.5
235/30ZR20 88W XL	E4-02126859	72dB(A)	1.1	10.5
255/50R20 109V XL	E4-02114327	73dB(A)	1.1	10.5
265/45ZR20 108W XL	E4-02126860	73dB(A)	1.1	10.5
275/40ZR20 106W XL	E4-0297776	73dB(A)	1.1	10.5
275/50R20 113V XL	E4-02126861	73dB(A)	1.1	10.5
305/40R20 112V XL	E4-02126862	75dB(A)	1.1	10.5

245/35ZR21 96W XL	E4-02126863	72dB(A)	1.1	10.5
275/30ZR21 98W XL	E4-02126864	73dB(A)	1.1	10.5
275/40ZR21 107W XL	E4-02126865	73dB(A)	1.1	10.5
275/50R21 113V XL	E4-02126866	73dB(A)	1.1	10.5
265/45ZR22 110W XL	E4-02126869	73dB(A)	1.1	10.5
285/50R22 118V XL	E4-02126870	75dB(A)	1.1	10.5
295/40R22 112V XL	E4-02126871	75dB(A)	1.1	10.5
215/50ZR18 92W	E4-02126872	71dB(A)	1.1	10.5
205/55R19 97V XL	E4-02126873	72dB(A)	1.1	10.5
195/55R20 91V	E4-02126874	71dB(A)	1.1	10.5
245/50ZR20 105W XL	E4-02126875	72dB(A)	1.1	10.5
265/45R20 108V XL	E4-02126889	73dB(A)	1.1	10.5
315/35ZR21 111W XL	E4-02126867	75dB(A)	1.1	10.5
315/40R21 115V XL	E4-02126868	75dB(A)	1.1	10.5
205/55R16 91V	E4-0297209	71dB(A)	1.1	10.5
215/55R17 94V	E4-0298350	71dB(A)	1.1	10.5
235/50ZR18 101W XL	E4-02115925	72dB(A)	1.1	10.5
285/45R22 114V XL	E4-02114313	75dB(A)	1.1	10.5
285/35ZR22 106W XL	E4-02104196	75dB(A)	1.1	10.5
255/30ZR21 93W XL	E4-02126886	73dB(A)	1.1	10.5
315/35ZR20 110W XL	E4-02125222	75dB(A)	1.1	10.5
285/45R19 111V XL	E4-02114314	75dB(A)	1.1	10.5
275/40ZR19 105W XL	E4-02114303	75dB(A)	1.1	10.5
275/35ZR19 100Y XL	E4-02114318	73dB(A)	1.1	10.5
245/40ZR20 103W XL	E4-02139208	72dB(A)	1.1	10.5
<u>245/50R19 105V XL</u>	<u>E4-02142089</u>	<u>72dB(A)</u>	<u>1.1</u>	<u>10.5</u>
<u>245/50R19 105H XL</u>	<u>E4-02126920</u>	<u>72dB(A)</u>	<u>1.1</u>	<u>10.5</u>
<u>235/50ZR20 104W XL</u>	<u>E4-02141880</u>	<u>72dB(A)</u>	<u>1.1</u>	<u>10.5</u>

Worst Case Selection

Test size for rolling sound : 315/35ZR21 111W XL

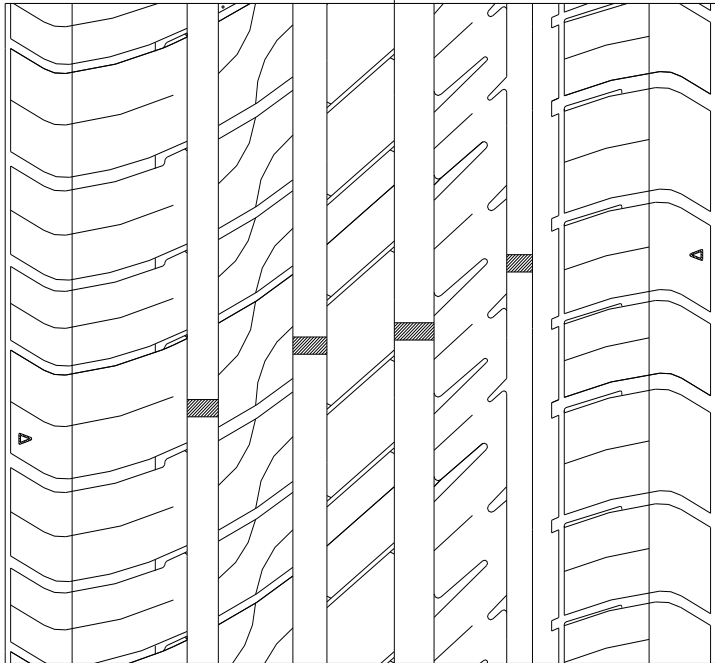
Because of : Largest section width (if the same section width: lowest aspect ratio; largest rim size)

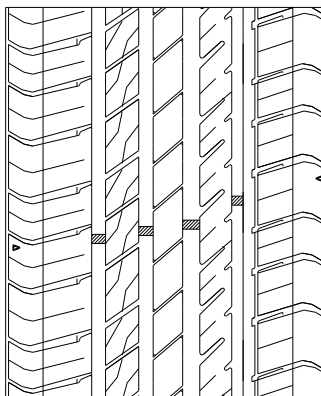
Test size for wet grip : 205/55R16 91W

Because of : Any tyre size that meets ten percent (10%) or more above the minimum required wet grip value can represent the whole tyre size range of the tread pattern type.
For any tyre size the limited value for the test tire is: 1.21

Test size for rolling resistance : 205/55R16 91W

Because of : Calculated limit value=(RRC-limit value R117—0.3N/KN)—
0.06×(LI-candidate—LI-lowest)=9.06

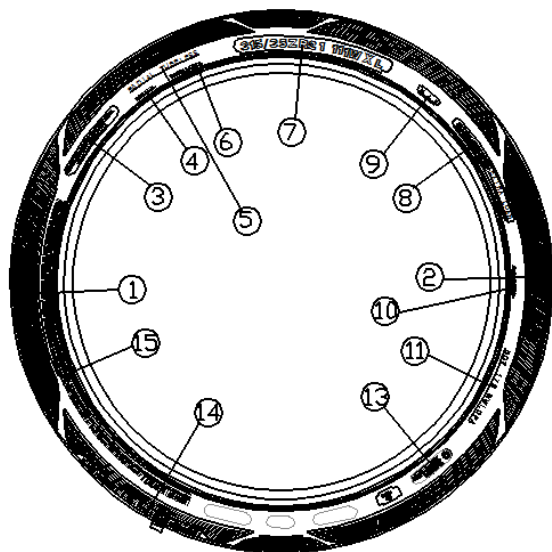
Drawing of the tread pattern (for measured tyre using for tyre noise)		
Manufacturer name	:	ZODO TIRE CO., LIMITED
Pattern name	:	LY566; L-ZEAL56; INSPIRER S4; ULTRA ARZ5; Drift;
Tyre Size	:	SPORTWAY 56; SPORT+; SPEEDWAY 56; ROCK 566; PERFORM;
Market	:	315/35ZR21 111W XL
Pitch number	:	EU/US
Pitch ratio	:	61
Void volume [%]	:	0.9/1.0/1.1/1.2
Width: main grooves [mm]	:	
Depth: center groove [mm]	:	32
Depth: shoulder groove [mm]	:	15.1/15.1/17.9/13.1
	:	7.5
	:	5.9
Tyre tread pattern	:	

Drawing of the tread pattern (for measured tyre using for tyre rolling resistance test and wet grip)		
Manufacturer name	:	ZODO TIRE CO., LIMITED
Pattern name	:	LY566; L-ZEAL56; INSPIRER S4; ULTRA ARZ5; Drift; SPORTWAY 56; SPORT+; SPEEDWAY 56; ROCK 566; PERFORM;
Tyre Size	:	205/55R16 91W
Market	:	EU/US
Pitch number	:	61
Pitch ratio	:	1.0/1.2/1.4
Void volume [%]	:	31.3
Width: main grooves [mm]	:	9/10/12/8
Depth: center groove [mm]	:	8
Depth: shoulder groove [mm]	:	8
Tyre mass [kg]	:	9.90
Tread depth [mm]	:	8
Tread width [mm]	:	170
Curvature radius of tread crown [mm]	:	974
Tyre outer diameter [mm]	:	628
Tread plies	:	1 POLYESTER + 2 STEEL + 1POLYAMIDE
Tyre tread pattern	:	

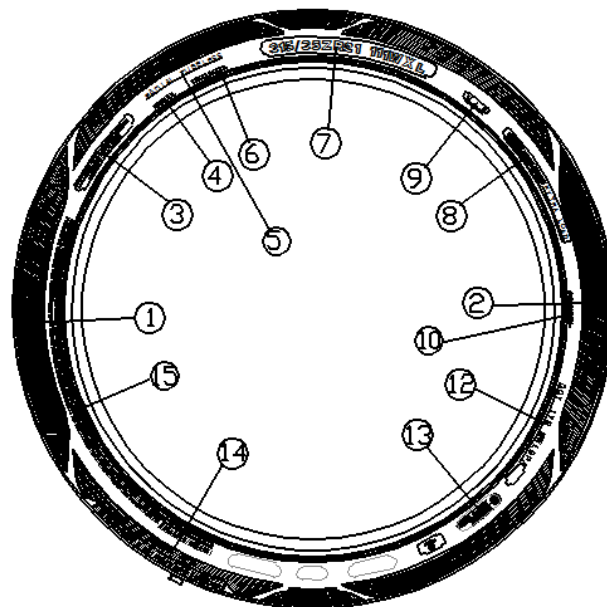
Drawing of the tyre sidewall

Tyre Size

: 315/35ZR21 111W XL



Upper mold



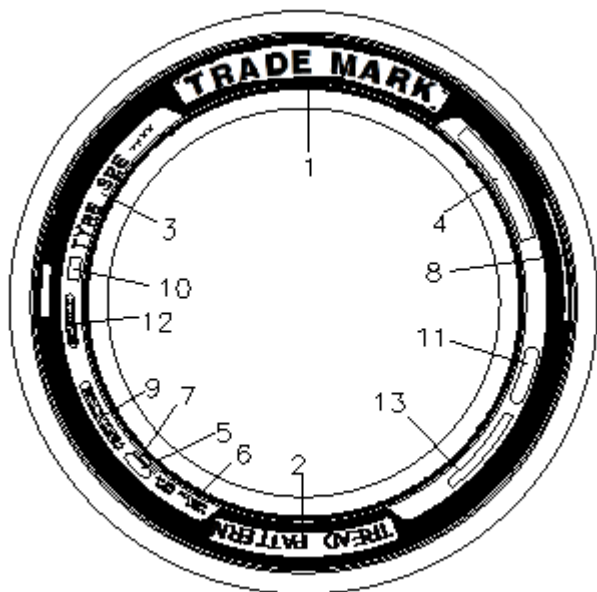
Lower mold

1. GRENLANDER	1. GRENLANDER
2. L-ZEAL56	2. L-ZEAL56
3. PLIES:TREAD 2POLYESTER+2STEEL+1NYLON SIDEWALL 2POLYESTER	3. PLIES:TREAD 2POLYESTER+2STEEL+1NYLON SIDEWALL 2POLYESTER
4. RIM:11J	4. RIM:11J
5. RADIAL TUBELESS	5. RADIAL TUBELESS
6. MOLD No.	6. MOLD No.
7. 315/35ZR21 111W XL	7. 315/35ZR21 111W XL
8. MAX. LOAD 1090 kg(2403 LBS) MAX. PRESS. 340 kPa(50 PSI) EXTRA LOAD	8. MAX. LOAD 1090 kg(2403 LBS) MAX. PRESS. 340 kPa(50 PSI) EXTRA LOAD
9. M+S	9. M+S
10. MADE IN CHINA	10. MADE IN CHINA
11. DOT 17B WWLDPA	12. DOT 17B WWLDPA x x x x (DATE CODE)
13. ECE APPROVAL MARK	13. ECE APPROVAL MARK
14. TREADWEAR 300 TRACTION A TEMPERATURE A	14. TREADWEAR 300 TRACTION A TEMPERATURE A
15. SAFETY WARNING	15. SAFETY WARNING

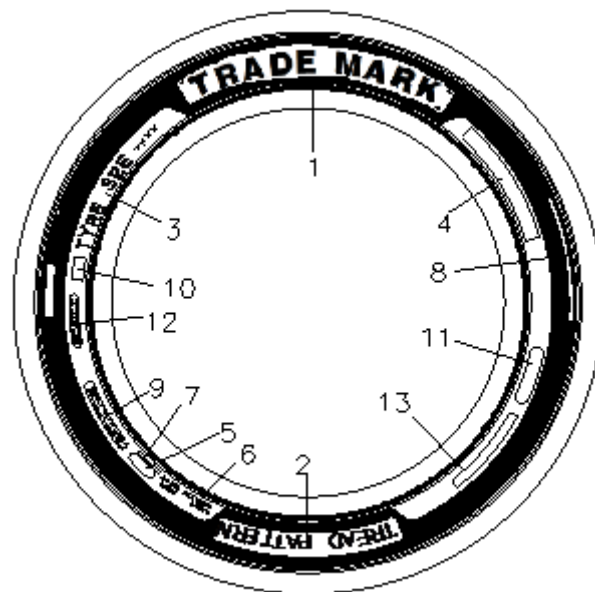
Drawing of the tyre sidewall

Tyre Size

: 205/55R16 91W



Upper mold



Lower mold

1. CONSTANCY	1. CONSTANCY
2.LY566	2.LY566
3.205/55R16 91W	3.205/55R16 91W
4. SAFETY WARNING	4. SAFETY WARNING
5. MADE IN CHINA	5. MADE IN CHINA
6. RADIAL TUBELESS STEEL BELTED	6. RADIAL TUBELESS STEEL BELTED
7. STANDARD RIM : 6 1/2J	7. STANDARD RIM : 6 1/2J
8. TREADWEAR 300 TRACTION A TEMPERATURE A	8.TREADWEAR 300 TRACTION A TEMPERATURE A
9. PLIES : SIDEWALL 1 POLYESTER TREAD : 1 POLYESTER + 2 STEEL + 1 POLYAMIDE	9.PLIES : SIDEWALL 1 POLYESTER TREAD : 1 POLYESTER + 2 STEEL + 1 POLYAMIDE
10. M+S	10. M+S
11. ECE APPROVAL MARK	11. ECE APPROVAL MARK
12. MAX. LOAD 615 kg (1356 lbs) MAX. PRESS. 300 kPa(44 psi)	12. MAX. LOAD 615 kg (1356 lbs) MAX. PRESS. 300 kPa(44 psi)
13. DOT 7BA1 BE5	13. DOT 7BA1 BE5 XXXX(DATE CODE)