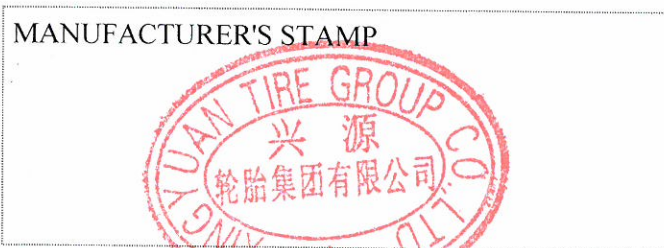


APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE ACCORDING TO ECE  
REGULATION No. 54, 00 SERIES OF AMENDMENTS

-----

1. Manufacturer's name or trade mark : HUALU;ANNAITE;GUOBAO;HILO;  
QIANGWEI;GUANGDA; ANGUANGDA;  
AMBERSTONE; BENTENG;
2. Tyre type designation by the manufacturer : 700;
3. Manufacturer's name and address : Xingyuan Tire Group Co., Ltd.  
Xishui Industrial Zone, Guangrao,  
Dongying, Shandong 257336  
P.R. China
4. If applicable, name and address of  
manufacturer's representative : not applicable
5. Summarised description,
- 5.1. Tyre size designation : 315/80R22.5
- 5.2. Category of use : normal/special/snow
- 5.3. Structure : diagonal (bias-ply)/radial
- 5.4. Speed category symbol,
- 5.4.1. nominal : K
- 5.4.2. additional (if applicable) : not applicable
- 5.5. Load-capacity indices,
- 5.5.1. corresponding to nominal speed : single: 154, twinned (dual): 151
- 5.5.2. corresponding to additional speed : single: --- , twinned (dual): ---
6. Overall dimensions : ETRTO /~~calculated~~/Annex 5
- overall section width : 312
- outer diameter : 1076
7. Factor 'x' : not applicable
8. Ply-rating number for diagonal (bias ply) tyres : 18
9. Rims on which the tyre can be mounted : 9.00
10. Measuring rim and test rim : see attached test report
11. State whether the tyre is : tubeless-/tube type
12. Inflation pressure and index for  
measuring and testing : see attached test report
13. Submitted for approval on (date) : Dec 01, 2013

We herewith declare that we have not applied and will not apply for approval with another Contracting Party of the ECE for the same type of product.



Signature :

Name: BoLei

THIS APPLICATION IS ACCOMPANIED BY:

- A drawing of the tyre's side wall, tread and dimensioned cross section.
- The test report.



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



**COMMUNICATION**

Concerning <sup>(1)</sup>:

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- ~~approval withdrawn~~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



of a type of pneumatic tyre for motor vehicles pursuant to Regulation number 54.

**Approval number: E4-54R-0028675**

**Extension number: 00**

1. Manufacturer's name or trade mark(s) on the tyre type : HUALU; ANNAITE; GUOBAO; HILO; QIANGWEI; GUANGDA; ANGUANGDA; AMBERSTONE; BENTENG
2. Tyre type designation by the manufacturer : 700
3. Manufacturer's name and address : Xingyuan Tire Group Co., Ltd.  
Xishui Industrial Zone, Guangrao  
Dongying, Shandong, 257336  
P.R.China
4. If applicable, name and address of the manufacturer's representative : not applicable
5. Summarized description:
  - 5.1. Size of tyre : 315/80R22.5
  - 5.2. Category of use : ~~normal~~/snow/special <sup>(1)</sup>
  - 5.3. Structure : ~~diagonal (bias ply)~~/radial <sup>(1)</sup>
  - 5.4. Tyre class : ~~E2~~/C3 <sup>(1)</sup>
  - 5.5. Speed category symbol:
    - 5.5.1. nominal : K

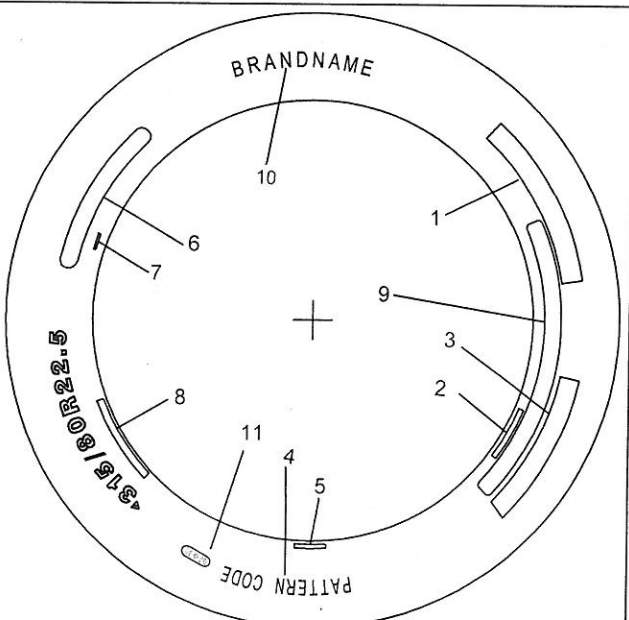
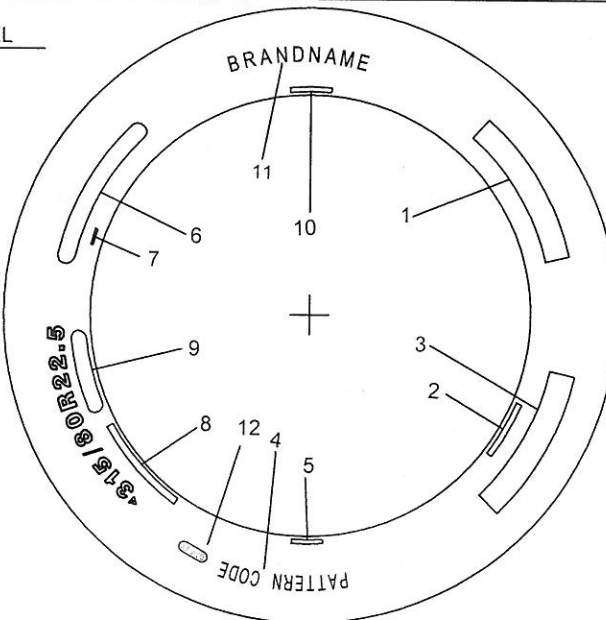
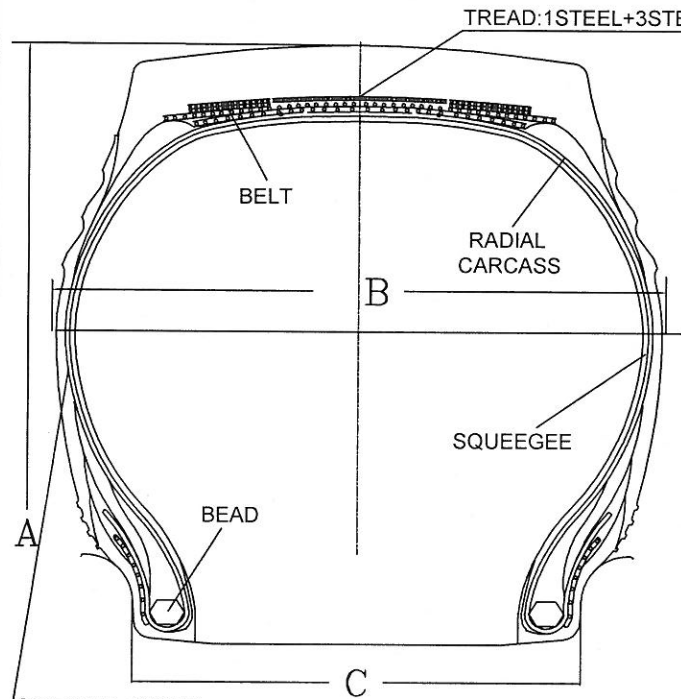


- 5.5.2. additional (if applicable) : ---
- 5.6. Load-capacity indices:
- 5.6.1. Corresponding to nominal speed:
- single : 154
  - twinned (dual) : 151
- 5.6.2. Corresponding to additional speed:
- single : ---
  - twinned (dual) : ---
6. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : TÜV Rheinland Kraftfahrt GmbH  
Technologiezentrum Verkehrssicherheit  
Typprüfstelle Fahrzeuge/Fahrzeugteile  
Am Grauen Stein  
D-51105 Köln (Poll)
7. Date of report issued by that service : Feb. 11, 2014
8. Number of report issued by that service : 86-R54-2055/13
9. Reason(s) for extension (if applicable) : N.A.
10. Any remarks : ---
11. Place : Zoetermeer
12. Date : 10-MAR-2014
13. Signature :
- 


**M. Uttien**
14. Annexed to this communication is a list of documents in the approval file 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 54.
  - The drawing of the tyre's sidewalls, tread and dimensioned cross-section.
  - The test report as mentioned in item 8.

---

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



SIDEWALL: 1STEEL  
PROJECTION

TREAD PATTERN  
REFER TO ATTACHMENT NO.082-2013

BOTTOM SIDEWALL

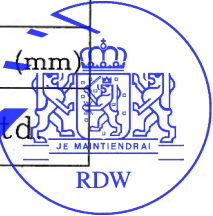
TOP SIDEWALL

BOTTOM SIDEWALL		TOP SIDEWALL	
1	ALL STEEL RADIAL TIRE REGROOVABLE	1	ALL STEEL RADIAL TIRE REGROOVABLE
2	STANDARD RIM 9.00	2	STANDARD RIM 9.00
3	WARNING: .....	3	WARNING: .....
4	REFER TO ATTACHMENT NO.082-2013	4	REFER TO ATTACHMENT NO.082-2013
5	TUBELESS	5	TUBELESS
6	154/151 K 18PR LOAD RANGE J PLIES:SIDEWALL 1 STEEL; TREAD 1 STEEL + 3 STEEL MAX LOAD SINGLE 3750 Kg(8270 LBS) AT 830 Kpa(120 PSI) COLD MAX LOAD DOUBLE 3450 Kg(7610 LBS) AT 830 Kpa(120 PSI) COLD	6	154/151 K 18PR LOAD RANGE J PLIES:SIDEWALL 1 STEEL; TREAD 1 STEEL + 3 STEEL MAX LOAD SINGLE 3750 Kg(8270 LBS) AT 830 Kpa(120 PSI) COLD MAX LOAD DOUBLE 3450 Kg(7610 LBS) AT 830 Kpa(120 PSI) COLD
7	***** (MOULD CODE)	7	***** (MOULD CODE)
8	DOT 66 TW BB31**** (****---DATE CODE)	8	DOT 66 TW BB31**** (****---DATE CODE)
9	(E4)*****	9	兴源轮胎集团有限公司
10	MADE IN CHINA	10	REFER TO ATTACHMENT NO.082-2013
11	REFER TO ATTACHMENT NO.082-2013	11	M+S
12	M+S		

315/80R22.5	154/151	K	TL	1076	312	228.6	20
TIRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)	SKID DEPTH (mm)

DRAWN BY *姚文* CHECKED BY *张明* APPROVED BY *李*

XINGYUAN TIRE GROUP Co., Ltd.



# ATTACHMENT NO.082-2013


TIRE SIZE 315/80R22.5 154/151 K

EA \*\*\*\*\*

BRANDNAME

PATTERN CODE


TREAD PATTERN

HUALU (BOTTOM SIDEWALL)  
 (TOP SIDEWALL)

700

ANNAITE (BOTTOM SIDEWALL)  
**Annaite**  
 安耐特 (TOP SIDEWALL)

700

GUOBAO (BOTTOM SIDEWALL)  
 (TOP SIDEWALL)


700

QIANGWEI (BOTTOM SIDEWALL)  
**强威**  
**QIANGWEI** (TOP SIDEWALL)


700

**HULO**

700

GUANGDA (BOTTOM SIDEWALL)  
 (TOP SIDEWALL)

700

ANGUANGDA (BOTTOM SIDEWALL)  
 (TOP SIDEWALL)

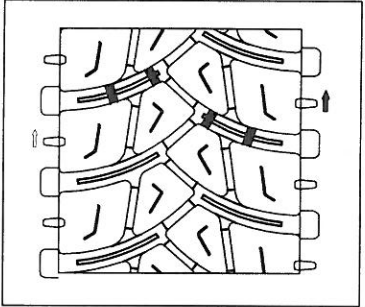
700

**AMBERSTONE**

700

BENTENG (BOTTOM SIDEWALL)  
**奔腾** (TOP SIDEWALL)

700



## TEST REPORT

According to ECE-Regulation

### Uniform provisions concerning the approval of pneumatic tyres for commercial vehicles and their trailers

ECE-R54, Amend.00, Suppl. 18

---

#### Approval Status

Previously granted : ---  
ECE type – approval

---

#### Structure of report:

- Item No.
1. General information
  2. Test object
  3. Test record
  4. List of Appendices
  5. Statement of conformity
- Appendix 0 List of modifications
- 

The Test Report shall be reproduced and published in full by the client only. It shall however be reproduced partially with the written permission of the Testing Laboratory only.

**Manufacturer** : Xingyuan Tire Group Co., Ltd.  
**Type** : 315/80R22.5

**1. General information**

- 1.1. Manufacturer's name and address : Xingyuan Tire Group Co., Ltd.  
Xishui Industrial Zone, Guangrao  
Dongying, Shandong, 257336  
P.R. China
- 1.2. Technical service responsible for carrying out the tests : TÜV Rheinland Kraftfahrt GmbH  
Technologiezentrum Verkehrssicherheit  
Typprüfstelle Fahrzeuge/Fahrzeugteile  
Am Grauen Stein  
D-51105 Köln (Poll)
- 1.3. Type : 315/80R22.5
- 1.4. Trade mark(s) : HUALU; ANNAITE; GUOBAO; HILO; QIANGWEI;  
GUANGDA; ANGUANGDA; AMBERSTONE;  
BENTENG
- 1.5. Tread pattern name(s) : 700
- 1.6. No. of the information folder : ---  
- Date of issue : ---  
- Date of last change : ---

**2. Test object**

- 2.1. Markings
  - 2.1.1. Trade mark : ANNAITE
  - 2.1.2. Tread pattern name : 700
  - 2.1.3. Plies
    - Tread : 1 STEEL + 3 STEEL
    - Side wall : 1 STEEL
  - 2.1.4. Size designation : 315/80R22.5
  - 2.1.5. Category of use : snow
  - 2.1.6. Structure : radial
  - 2.1.7. Speed category : nominal: K, supplementary: ---
  - 2.1.8. Load-Capacity Indices :  
corresponding to nominal speed : single :154, twinned : 151  
corresponding to supplementary speed : single : ---, twinned : ---
  - 2.1.9. Index of inflation pressure for testing : 120 PSI
  - 2.1.10. Ply-rating number : 18
  - 2.1.11. Indication : tubeless
  - 2.1.12. Regroovable : yes
  - 2.1.13. Date of manufacture : 5013
  - 2.1.14. Identification number : ---
- 2.2. Remarks : all versions of the types as stated in the  
information document are covered with the tested  
test object respectively.

**Manufacturer** : Xingyuan Tire Group Co., Ltd.  
**Type** : 315/80R22.5

**3. Test record**

3.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements.

3.2. Test results :

Remark concerning extension :

~~[The type has been tested according to the modification(s) mentioned in item Appendix 0.]~~

~~[The results of previous test are still valid.]~~

3.2.1. Dimension Measurement according to Annex 6

3.2.1.1. Measuring rim : 9.00 × 22.5

3.2.1.2. Inflation pressure : 8.3 bar

3.2.1.3. Inflation pressure (readjusted before conditioning) : 8.3 bar

3.2.1.4. Duration of conditioning of mounted tyre pre-measuring at ambient room temperature : more than 24 hours

3.2.1.5. Inflation pressure (readjusted after conditioning) : 8.3 bar

3.2.1.6. Overall width at six equally spaced points

1.	312.6	mm	4.	312.9	mm
2.	313.1	mm	5.	313.3	mm
3.	312.7	mm	6.	313.1	mm
Max.:	313.3	mm			

3.2.1.7. Circumference : 3397 mm

3.2.1.8. Outer diameter : 1081.3 mm

3.2.2. Load/speed performance test according to Annex 7

3.2.2.1. Test machine : TJR-2-TB(Y)

3.2.2.2. Diameter test drum : 1.7 m

3.2.2.3. Test rim : 9.00 × 22.5

3.2.2.4. Conditioning of mounted tyre pre-testing at test-room temperature : more than 3 hours

3.2.2.5. Test-room temperature : 24 ~ 27 °C

3.2.2.6. Inflation pressure (readjusted before conditioning) : 8.3 bar

3.2.2.7. Inflation pressure (readjusted after conditioning) : 8.3 bar

3.2.2.8. Circumference after conditioning, before testing : 3397 mm

3.2.2.9. Outer diameter : 1081.3 mm

3.2.2.10. Inflation pressure : 8.3 bar

3.2.2.11. Test drum speed : 175 min<sup>-1</sup>



**Manufacturer** : Xingyuan Tire Group Co., Ltd.  
**Type** : 315/80R22.5

3.2.2.12. Corresponding load (100 %) : 3750 kg

Step	Step-Duration [h]	Total Duration [h]	Actual speed (min <sup>-1</sup> )	Load (single)	
				(%)	(kg)
1.	7	7	175	66	2475
2.	16	23	175	84	3150
3.	24	47	175	101	3787.5

3.2.2.13. Conditioning after testing at test-room temperature : more than 6 hours

3.2.2.14. Inflation pressure : 8.3 bar

3.2.2.15. Circumference after conditioning, after testing : 3403 mm

3.2.2.16. Outer diameter : 1083.2 mm

3.2.2.17. Difference outer diameter before and after testing : 1.9 mm

(max. 3.5 %) : 0.18 %

### 3.3. Additional information

The results of the test refer exclusively to object mentioned under point 2.1. of the report.

Test site : Xingyuan Tire Group Co., Ltd.  
 Xishui Industrial Zone, Guangrao  
 Dongying, Shandong, 257336  
 P.R.China

Test date : Dec. 11~14, 2013

Remark : ---

## 4. List of Appendices

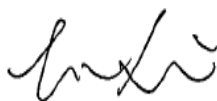
0 List of modifications

## 5. Statement of conformity

The information folder and the type described there comply with the requirements in the above mentioned regulation.

The test laboratory is accredited for the above mentioned tests by the accreditation body of the RDW, Vehicle Technology and Information Centre, as the competent Administrative Department for the Netherlands; Designation No: RDW-99050014 -06.

Engineering Center Guangdong, Feb. 11, 2014  
 LX/AY



Dipl.-Ing. Liu Xin



**Manufacturer** : Xingyuan Tire Group Co., Ltd.  
**Type** : 315/80R22.5

---

**List of modifications**

**Appendix 0**

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---