



MINISTERIO
DE INDUSTRIA
Y TURISMO

SECRETARÍA DE ESTADO DE
INDUSTRIA

DIRECCIÓN GENERAL DE ESTRATEGIA
INDUSTRIAL Y DE LA PEQUEÑA Y
MEDIANA EMPRESA



(1)

E9*117R02/16*1263*02

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Relativa a / Concerning:

- la concesión de la homologación / ~~Approval granted~~ ⁽²⁾
- la extensión de homologación / ~~Approval extended~~ ⁽²⁾
- la denegación de homologación / ~~Approval refused~~ ⁽²⁾
- la retirada de homologación / ~~Approval withdrawn~~ ⁽²⁾
- el cese definitivo de la producción / ~~Production definitively discontinued~~ ⁽²⁾

de un tipo de neumático en virtud del Reglamento nº117 en lo que se refiere al “nivel de emisión de ruido de rodadura” y/o a la “adherencia en superficie mojada” y/o a la “resistencia a la rodadura” / *of a type of tyre with regard to “rolling sound emission level” and/or adhesion on wet surfaces” and/or “rolling resistance” pursuant to Regulation No. 117.*

Número de homologación / *Approval No* ⁽³⁾: **E9*117R02/16*1263*02**

Sufijos / *Suffixes* ⁽⁴⁾: **02S2WR2**

- | | | |
|-------|--|--|
| 1. | Nombre y dirección del fabricante /
<i>Manufacturer's name and address</i> | : LLIT (THAILAND) CO., LTD.
911/9 Moo 5, Khaokhansong
20110, Sriracha, CHONBURI
(TAILANDIA / THAILAND) |
| 2. | En su caso, nombre y dirección del representante del
fabricante / <i>If applicable, name and address of
manufacturer's representative</i> | : N/A |
| 3. | “Clase de neumático” del tipo de neumático /
<i>“Tyre Class” of the type of tyre</i> | : C3 |
| 4. | “Categoría de uso” del tipo de neumático /
<i>“Category of use” of the type of tyre</i> | : normal / nieve / especial ⁽²⁾
normal / snow / special ⁽²⁾ |
| 4.1. | Neumático de nieve para uso en condiciones extremas de
nieve / <i>Tyre for use in severe snow conditions</i> | : Sí / Yes |
| 4.1.1 | Neumático de agarre de hielo / <i>Ice grip tyre</i> | : No / No |
| 4.2. | Neumático de tracción / <i>Traction tyre</i> | : No / No |
| 5. | Estructura del neumático / <i>Tyre structure</i> | : Radial |
| 6. | Designación de tipo de neumático / <i>Type of tyre
designation</i> | : ETT100 |
| 6.1. | Marca(s) del tipo de neumático / <i>Brand
name(s) / Trademark(s) of the type of tyre</i> | : LINGLONG; SHANLING; LEAO; Infinity;
BENCHMARK; CROSSWIND; BARKLEY;
HUBTRAC; GREEN MAX; SUMO FIRENZA |
| 6.2. | Denominación(es) comercial(es) del tipo de neumático /
<i>Trade description(s) / commercial name(s) of the type of
tyre</i> | : ETT100; CWT10E; DRIVUS-T; GRT800;
HIGHWAY T11; ECO-EVER BLT11; HT51 |

⁽¹⁾ Distinguiendo el número del país que ha otorgado/extendido/rechazado/retirado la homologación (ver disposiciones de homologación en el Reglamento) / *Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).*

⁽²⁾ Táchese lo que no proceda / *Strike out what does not apply*

⁽³⁾ De acuerdo al Calendario 4 de la Revisión 3 del acuerdo de 1958. / *According to Schedule 4 to Revision 3 of the 1958 Agreement.*

⁽⁴⁾ De acuerdo a los párrafos 5.2.2. y 5.3.1.2 de este Reglamento / *According to paragraphs 5.2.2. and 5.3.1.2. of this Regulation.*

⁽⁵⁾ Apéndice 2 para neumáticos clase C1 y C2, Apéndice 3 para neumáticos clase C3. / *Appendix 2 for classes C1 and C2 tyres, Appendix 3 for class C3 tyres.*

⁽⁶⁾ En el caso de “neumático de nieve para uso en condiciones severas” se deberá añadir un informe de ensayo de acuerdo al Apéndice 2 del Anexo 7. / *In the case of “snow tyre for use in severe snow conditions” a test report according to Appendix 2 to Annex 7 shall be submitted*





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7. Servicio técnico, y dado el caso, laboratorio de ensayo : IDIADA
autorizado a efectos de homologación o comprobación de
los ensayos de conformidad / *Technical service and,
where applicable, test laboratory approved for purposes
of approval or of verification of conformity tests*
8. Prestaciones homologadas: nivel de ruido en (~~fase 1~~/fase 2), nivel de adherencia en superficie mojada, nivel de
resistencia a la rodadura (~~fase 1~~/fase 2) ⁽²⁾ /
*Performances approved: sound level at (~~stage 1~~/stage 2), wet adhesion level, rolling resistance level (~~stage
1~~/stage 2) ⁽²⁾*
- 8.1. Nivel de emisión de ruido del tamaño representativo del neumático, véase el párrafo 2.7 del presente Reglamento,
conforme al punto 7. del acta de ensayo que figura en el Apéndice 1 del Anexo 3: 73 dB(A) a la velocidad de
referencia de 70 km/h ~~o 80 km/h~~ ⁽²⁾ / *Sound level of the representative tyre size, see paragraph 2.7. of this
Regulation, as per item 7. of the test report in Appendix 1 to Annex 3: 73 dB(A) at reference speed of 70 km/h ~~or
80 km/h~~ ⁽²⁾*
- 8.2. Nivel de adherencia en superficie mojada del tamaño representativo del neumático, ver párrafo 2.7. del presente
Reglamento, según los ejemplos del acta de ensayo que figuran en el apéndice al Anexo 5: 1.09 (G) mediante el
método del vehículo ~~o de remolque~~ ⁽²⁾ / *Wet adhesion level of the representative tyre size, see paragraph 2.7. of
this Regulation, as per the test report examples shown in the appendix to Annex 5: 1.09 (G) using the vehicle ~~or
trailer~~ ⁽²⁾ method*
- 8.3. Nivel de resistencia a la rodadura del tamaño representativo del neumático, ver párrafo 2.7. del presente
Reglamento, conforme al punto 7. del acta de ensayo que figura en el Apéndice 1 del Anexo 6: 5.85 N/kN /
*Rolling resistance level of the representative tyre size, see paragraph 2.7. of this Regulation, as per item 7. of the
test report in Appendix 1 to Annex 6: 5.85 N/kN*
- 8.4. Nivel de adherencia en nieve del tamaño representativo del neumático, ver párrafo 2.7. del presente Reglamento,
conforme al punto 7. del acta de ensayo que figura en el apéndice ⁽⁵⁾ X del Anexo 7: 1.55 (índice de adherencia en
nieve) utilizando el ~~método de frenado en nieve, método de tracción por giro o método de aceleración~~ ⁽²⁾ / *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 ⁽⁵⁾ X to Annex 7: 1.55 (snow grip index) using the ~~brake on snow method, spin traction
method or acceleration method~~ ⁽²⁾*
- 8.4.1. Nivel de desempeño sobre hielo del tamaño representativo del neumático, ver párrafo 2.7. del presente Reglamento,
conforme al punto 7. del acta de ensayo en el apéndice 2 del Anexo 8: N/A (índice de adherencia en hielo) usando
el método de frenado sobre nieve / *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: N/A (ice grip index) using the
brake on ice method. ⁽²⁾*
9. Número del acta de ensayo expedida por el Servicio : CN21010156; CN22080225; **CN25022221**
Técnico / *Number of report issued by the Technical
Service*
10. Fecha del acta expedida por dicho Servicio / : **27/02/2025**
Date of report issued by that service

⁽¹⁾ Distinguiendo el número del país que ha otorgado/extendido/rechazado/retirado la homologación (ver disposiciones de homologación en el Reglamento) / *Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).*

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⁽³⁾ De acuerdo al Calendario 4 de la Revisión 3 del acuerdo de 1958. / *According to Schedule 4 to Revision 3 of the 1958 Agreement.*

⁽⁴⁾ De acuerdo a los párrafos 5.2.2. y 5.3.1.2 de este Reglamento / *According to paragraphs 5.2.2. and 5.3.1.2. of this Regulation.*

⁽⁵⁾ Apéndice 2 para neumáticos clase C1 y C2, Apéndice 3 para neumáticos clase C3. / *Appendix 2 for classes C1 and C2 tyres, Appendix 3 for class C3 tyres.*

⁽⁶⁾ En el caso de "neumático de nieve para uso en condiciones severas" se deberá añadir un informe de ensayo de acuerdo al Apéndice 2 del Anexo 7. / *In the case of "snow tyre for use in severe snow conditions" a test report according to Appendix 2 to Annex 7 shall be submitted*





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11. Motivo(s) de la extensión (en su caso) /
Reason(s) of extension (if applicable) : Adición de nombres comerciales / *Addition of trade description(s)*;
Actualización del número de suplemento
reglamento / *Upgrade of the regulation supplement number.*
12. Observaciones /
Any remarks : Esta homologación ha sido concedida de
conformidad con lo descrito en el punto 4 del
artículo 12 de la revisión 3 del acuerdo de 1958
(E/ECE/TRANS/505/Rev.3) y no cumple con la
última serie de enmiendas en vigor / *This approval
has been granted according to Revisión 3 of 1958
Agreement(E/ECE/TRANS/505/Rev.3), Article 12.4
and does not comply with the last series of
amendments.*
13. Lugar /
Place : Madrid
14. Fecha/
Date : Ver firma electrónica /
See electronic signature
15. Firma / *Signature*:
EL DIRECTOR GENERAL DE ESTRATEGIA INDUSTRIAL Y DE LA PEQUEÑA Y MEDIANA
EMPRESA
16. Se adjunta a la presente notificación / *Annexed to this communication are*:
- 16.1 La lista de documentos que figuran en el expediente de homologación depositado en la Autoridad de
homologación de Tipo que hayan expedido la homologación y que podrá obtenerse previa petición ⁽⁵⁾ / *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* ⁽⁶⁾
- 16.2 Una lista de designaciones de los dibujos de las bandas de rodadura: especifíquese la lista de designaciones de
tamaño del neumático de cada marca registrada o marca comercial y denominación comercial y añádase, para los
neumáticos de clase C1, el marcado "Reinforced" o "Extra Load" o no / *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.*

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⁽⁵⁾ Apéndice 2 para neumáticos clase C1 y C2, Apéndice 3 para neumáticos clase C3. / *Appendix 2 for classes C1 and C2 tyres, Appendix 3 for class C3 tyres.*

⁽⁶⁾ En el caso de "neumático de nieve para uso en condiciones severas" se deberá añadir un informe de ensayo de acuerdo al Apéndice 2 del Anexo 7. / *In the case of "snow tyre for use in severe snow conditions" a test report according to Appendix 2 to Annex 7 shall be submitted*





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Anexo - Información adicional sobre esta Homologación de tipo

Condiciones de la autorización y pie de recurso

Los vehículos, sistemas, componentes o unidades técnicas independientes fabricados en virtud de esta homologación de tipo deben estar identificados y portar las marcas correspondientes según la reglamentación aplicable.

La producción en serie de vehículos, sistemas, componentes y unidades técnicas independientes debe realizarse de acuerdo con la documentación de homologación. Todo cambio en la producción individualizada requerirá autorización expresa previa por parte de la Autoridad de Homologación Española.

Cualquier modificación en los datos incluidos en el certificado de homologación, como el nombre de la empresa, representante en la UE, dirección y las plantas de fabricación deben ser comunicados inmediatamente a la Autoridad de Homologación Española.

La homologación perderá su validez cuando la misma haya sido retirada o el tipo ya no cumpla con los requisitos legales. La retirada tendrá lugar siempre que hayan dejado de cumplirse los requisitos necesarios para la concesión y mantenimiento de la misma, cuando el fabricante no pueda demostrar a la Autoridad de Homologación el cumplimiento con los requisitos y procedimientos para garantizar la conformidad de la producción, en caso de que el titular no cumpla con sus obligaciones inherentes a la homologación o cuando se determine que el tipo homologado no cumple con los requisitos de seguridad y medio ambiente.

La Autoridad de Homologación de Tipo española podrá verificar el cumplimiento de las obligaciones del fabricante en cualquier momento. En particular, se podrá comprobar la correspondencia del producto con el tipo homologado, así como las medidas establecidas para garantizar la conformidad de la producción. A tal efecto se podrán tomar o solicitar las muestras necesarias. Se permitirá el acceso sin trabas a las instalaciones de producción y almacenamiento a los empleados o representantes de la Autoridad de Homologación Española.

La autorización objeto de esta resolución de homologación de tipo no es transferible. Los derechos de marca de terceros no se encuentran afectados por esta homologación.

Contra la presente Resolución, que no pone fin a la vía administrativa, podrá interponerse recurso de alzada ¹ ante la Dirección General de Estrategia Industrial y de la Pequeña y Mediana empresa, o ante la Secretaría de Estado de Industria, en el plazo de un mes a partir del día siguiente a su notificación, de conformidad con los artículos 121 y 122 de la Ley 39/2015, de 1 de octubre, del Procedimiento Administrativo Común de las Administraciones Públicas.

¹ Nota: Para interponer recurso de alzada deberá acceder al siguiente enlace:

<https://sede.serviciosmin.gob.es/es-es/procedimientoselectronicos/Paginas/detalle-procedimientos.aspx?IdProcedimiento=157>





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Annex - Additional Information on this Type Approval

Collateral clauses and right to appeal (Courtesy translation)

All vehicles, systems, components or separate technical units which correspond to the approved type are to be identified and marked according to the applied regulation.

The serial fabrication of vehicles, systems, components or separate technical must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the Spanish Type Approval Authority.

Changes in the data included in the approval certificate, such as the name of the company, EU representative, address and the manufacturing plant are to be immediately disclosed to the Spanish Type Approval Authority.

The approval expires if it is withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the manufacturer cannot demonstrate to the Type Approval Authority that it comply with the requirements and procedures to guarantee the conformity of production, if the holder of the approval violates the duties involved in the approval or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

The Spanish Type Approval Authority may check the proper exercise of the conferred authority taken from this approval at any time. In particular, this means the compliant production as well as the measures for conformity of production. For this purpose, samples can be taken or have taken. The employees or the representatives of the Spanish Type Approval Authority may get unhindered access to the production and storage facilities.

The authorization contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

This approval does not conclude the administrative channel and can be appealed ² within one month after notification, according to articles 121 and 122 of Ley 39/2015, de 1 de octubre, del Procedimiento Administrativo Común de las Administraciones Públicas. The appeal is to be addressed to Dirección General de Estrategia Industrial y de la Pequeña y Mediana empresa, or Secretaría de Estado de Industria.

² Note: Appeal on the following link:

<https://sede.serviciosmin.gob.es/es-es/procedimientoselectronicos/Paginas/detalle-procedimientos.aspx?IdProcedimiento=157>





INFORME/REPORT N° CN25022221

REGLAMENTO CEPE/ONU 117R02/16 REFERENTE A EMISIÓN DE RUIDO A LA RODADURA,
ADHERENCIA EN MOJADO Y RESISTENCIA A LA RODADURA
UN/ECE REGULATION 117R02/16 RELATED TO ROLLING SOUND EMISSIONS, ADHESION ON WET
SURFACES AND ROLLING RESISTANCE

EXTENSION II

Solicitante / <i>Applicant</i>	: LLIT (THAILAND) CO., LTD. 911/9 Moo 5, Khaokhansong 20110, Sriracha, CHONBURI (TAILANDIA / THAILAND)
Fabricante / <i>Manufacturer</i>	: LLIT (THAILAND) CO., LTD. 911/9 Moo 5, Khaokhansong 20110, Sriracha, CHONBURI (TAILANDIA / THAILAND)
Clase del neumático / <i>Tyre Class</i>	: C3
Categoría de uso / <i>Category of use</i>	: Nieve (en condiciones severas) / <i>Snow (for use in severe snow conditions)</i>
Neumático de tracción / <i>Traction tyre</i>	: No / No
Designación de tipo de neumático / <i>Tyre type designation</i>	: ETT100
Marca / <i>Brand name</i>	: LINGLONG; SHANLING; LEAO; Infinity; BENCHMARK; CROSSWIND; BARKLEY; HUBTRAC; GREEN MAX; SUMO FIRENZA
Nombre comercial / <i>Commercial name</i>	: ETT100; CWT10E; DRIVUS-T; GRT800; HIGHWAY T11; ECO-EVER BLT11; HT51
Lugar y fecha de emisión del informe / <i>Place and date of issue</i>	: L'Albornar, Santa Oliva (Tarragona), 27/02/2025

CONCLUSIONES: La muestra ensayada de la familia CUMPLE con las prescripciones referentes a “emisión de ruido a la rodadura” y/o “adherencia en superficie mojada” y/o “resistencia a la rodadura” y/o “prestaciones en nieve” según el REGLAMENTO CEPE/ONU 117R02/16. De acuerdo con el punto 12.12 de las Disposiciones Transitorias, el procedimiento de prueba para medir el agarre en mojado no tiene en cuenta las disposiciones del Suplemento 13. Las características de las muestras ensayadas están detalladas en los anexos de este informe.

CONCLUSIONS: The tested samples of the family FULFIL the technical prescriptions with regard to “rolling sound emissions level” and/or “adhesion on wet surfaces” and/or “rolling resistance” and/or “snow performance” pursuant to UN/ECE REGULATION 117R02/16. According to point 12.12 of the Transitional Provisions, the test procedure for measuring wet grip does not take into account the provisions of Supplement 13. The characteristics of the tested samples are detailed in the annexes to the test report.

Realizado por / *Performed by:*

V.B°. / *Revised by:*

Chen(Jacky) Zhu
INGENIERO DE HOMOLOGACIONES
HOMOLOGATION ENGINEER

Josep Masip Gomez
JEFE DE DEPARTAMENTO
DEPARTMENT MANAGER

- * LOS RESULTADOS PRESENTADOS SE REFIEREN UNICAMENTE A LA MUESTRA ENSAYADA. / *THE RESULTS PRESENTED REFER TO THE TESTED SAMPLE ONLY.*
- * QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCION PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA. / *THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN.*
- * EL LABORATORIO HA CALCULADO LA INCERTIDUMBRE DE MEDIDA ASOCIADA A LOS RESULTADOS. / *MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY.*



INFORME/REPORT N° CN25022221

RESUMEN/ SUMMARY

1. Dimensiones incluidas en el tipo del neumático / *Dimensions included in the type of tyre* : Ver anexo Documentación técnica
: *See annex Technical documentation*
2. Medidas de neumático seleccionadas para ensayo / *Tyre sizes selected for testing*
 - 2.1. Emisión de ruido a la rodadura / *Rolling sound emissions* : 445/45R19.5 160J (mayor ancho de sección, menor relación de aspecto, mayor diámetro de llanta / *widest section width, lowest aspect ratio, largest rim diameter*).
Ver Anexo 1, Informe CT117-A0-180020, TÜV NORD, 03/04/2018
See Annex 1, Test report CT117-A0-80020, TÜV NORD, 03/04/2018
 - 2.2. Adherencia en superficie mojada / *Adhesion on wet surfaces*: 445/45R19.5 160J (cumple extra 10% / *meets extra 10%*).
Ver Anexo 2, Informe CT117-A0-180021, TÜV NORD, 12/04/2018
See Annex 2, Test report CT117-A0-180021, TÜV NORD, 12/04/2018
 - 2.3. Resistencia a la rodadura / *Rolling resistance* : 445/45R19.5 156J (menor índice de carga / *lowest load index*).
Ver Anexo 3, Informe CT117-A0-180019, TÜV NORD, 03/04/2018
See Annex 3, Informe CT117-A0-180019, TÜV NORD, 03/04/2018
 - 2.4. Adherencia en nieve / *Snow performance* : 385/55R19.5 156J (mínimo ancho de sección / *smallest section width*)
Ver Anexo 4, Informe CN25022223, IDIADA, 26/02/2025
See Annex 4, Test report CN25022223, IDIADA, 26/02/2025
3. Razones para la extensión (si aplica) / *Reason(s) of extension (if applicable)*:
 - Adición de nombres comerciales(s) / *Addition of trade description(s)*;
 - Actualización del número de suplemento reglamento / *Upgrade of the regulation supplement number*
4. Lista de Anexos a este informe / *List of Annexes to this report*:
 - 4.1. Anexo 1/ *Annex 1*: Informe referente a emisión de ruido a la rodadura / *Test report according to rolling sound emission level*.
 - 4.2. Anexo 2/ *Annex 2*: Informe referente a adherencia en superficie mojada / *Test report according to adhesion on wet surfaces*.
 - 4.3. Anexo 3 /*Annex 3*: Informe referente a resistencia a la rodadura / *Test report according to rolling resistance*.
 - 4.4. Anexo 4 /*Annex 4*: Informe referente a prestaciones en nieve / *Test report according to snow performance*.
 - 4.5. Anexo /*Annex*: Documentación técnica del fabricante / *Manufacturer's technical documentation*.

Lugar y fecha de emisión del informe /
Place and date of issue

L'Albornar, Santa Oliva (Tarragona), 27/02/2025



Chen(Jacky) Zhu
INGENIERO DE HOMOLOGACIONES
HOMOLOGATION ENGINEER

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA. / *THE RESULTS PRESENTED REFER TO THE TESTED SAMPLE ONLY.*
 * QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA. / *THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN.*
 * EL LABORATORIO HA CALCULADO LA INCERTIDUMBRE DE MEDIDA ASOCIADA A LOS RESULTADOS. / *MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY.*
 * LA REGLA DE DECISIÓN UTILIZADA, SEGÚN AL NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE. / *THE DECISION RULE TAKEN, ACCORDINGLY TO THE ILAC-G8, HAS BEEN THE BINARY DECLARATION OF SIMPLE ACCEPTANCE.*



ANNEX 1

Validate this report with the security code «5G8US5GE» at: <https://homportal.idiada.com/#/document-verification>
Verifique el informe con código de seguridad «5G8US5GE» en: <https://homportal.idiada.com/#/document-verification>



**ANNEX 1 TO THE TEST REPORT
ROLLING SOUND EMISSION**

Test Report

No.: CT117-A0-180020
Page: 1 / 7
Customer: LLIT(THAILAND) CO.,LTD
Tyresize / -type: 445/45R19.5/ETT100



Test Report

AGREEMENT Concerning the adoption of uniform technical prescriptions for wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles and the conditions for reciprocal recognition of approvals granted on the basis of these prescriptions

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Test Report

No.: CT117-A0-180020
 Page: 2 / 7
 Customer: LLIT(THAILAND) CO.,LTD
 Tyresize / -type: 445/45R19.5/ETT100



Test Report/Prüfbericht (ECE-R117)

Inspection report regarding the tyre/road noise emission of a tyre in accordance with the Council Directive, Annex V to Directive 92/23/EEC, as last amended by Directive 2005/11/EC and ECE Regulation no. 117.

Part1-Report

- | | |
|---|---|
| 1. Type approval authority or Technical Service : | TÜV NORD Mobilität GmbH & Co. KG - Institut für Fahrzeugtechnik und Mobilität, Schönscheidtstr. 28, 45307 Essen |
| 2. Name and address of applicant : | LLIT(THAILAND) CO.,LTD
911/9Moo5, Khaokhansong, Sriracha,Chonburi 20110, Thailand |
| 3. Test report No. : | CT117-A0-180020 |
| 4. Manufacturer and Brand Name or Trade description : | LINGLONG |
| 5. Tyre Class (C1, C2 or C3) : | Class C3 |
| 6. Category of use : | Snow |
| 7.Sound level according to paras. 4.4. and 4.5. of Annex 3 of: ECE R 117 and paras. 4.4. and 4.5. of Annex V appendix1 of the Directive 92/23 EC at reference speed of 70 or 80km/h | 73 dB(A) /70 km/h |
| 8. Tire/Road Noise level according to paras. 6.1.1. through paras 6.1.3. of ECE R 117 and paras.4.2.1 through 4.2.3 of Annex V of the Directive 92/23 EC at reference speed of 70 or 80km/h | Limit value expressed in dB(A) according to Regulation & Directive :
C3 Normal 73 or 92/23/EEC
** (XL) means for ECE R117.02 |
| 9. Comments (if any) : | |
| 10. Date of test report : | Apr 03, 2018 |



Test Report

No.: CT117-A0-180020
 Page: 3 / 7
 Customer: LLIT(THAILAND) CO.,LTD
 Tyresize / -type: 445/45R19.5/ETT100



Part2-Test data

1. Date of test : July19 2016
2. Test vehicle (Make, model, year, modifications, etc.) : Jianghuai Dragon
VIN: LGAG3DV28D2809664
- 2.1. Test vehicle wheelbase : 3750 mm
3. Location of test track : Dingyuan Ground for highway and
Traffic Fangang town,Dingyuan
District,233210,Anhui,P.R. China
- 3.1 Date of track certification to ISO 10844:2011 : Aug 19, 2014
- 3.2. Issued by : China Department of Transportation
Highway Inspection Center
- 3.3. Method of certification : Residual void content, Sound
absorption coefficient, Texture depth
4. Tyre test details
- 4.1. Tyre size designation/DOT Number : 445/45R19.5/1116
- 4.2. Tyre service description : Snow
Load Index : 160
Speed Category : J
- 4.3. Reference inflation pressure : 900kPa
Reference load: 4500kg
- 4.4. Test data

	Front left	Front right	Rear left	Rear right
Test mass (kg)	3012	3012	3553	3553
Tyre load index (%)	66.9	66.9	79.0	79.0
Inflation pressure (cold) (kPa)	540	540	640	640

- 4.5. Test rim width code :14.00X19.5
- 4.6. Temperature measurement sensor type : FLUKE-62



Test Report

No.:

CT117-A0-180020

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Customer:

LLIT(THAILAND) CO.,LTD

Tyresize / -type:

445/45R19.5/ETT100



5. Valid Test results:

Run No.	1	2	3	4	5	6	7	8
Test Speed km/h	61.8	63.9	65.8	68.1	72.3	74.1	76.4	78.2
Direction of run	One direction	One direction	One direction	One direction	One direction	One direction	One direction	One direction
Sound level left measured dB(A)	73.3	73.4	74.1	74.3	74.9	75.8	76.2	76.9
Sound level right measured dB(A)	73.2	73.1	73.5	74.2	75.2	76.1	75.9	77.3
Air temp. °C	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
Track temp. °C	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
Sound level left 2/temp. corrected dB(A)	---	---	---	---	---	---	---	---
Sound level right 2/temp. corrected dB(A)	---	---	---	---	---	---	---	---
Comments	---	---	---	---	---	---	---	---

5.1. Regression line slope : $a = 37.31$

5.2. Sound level after temperature correction according to para.4.3 of Annex 3 of ECE R117 and para. 4.3 of Annex V appendix 1 of the Directive 92/23 : 74.9 dB(A)

5.3. The final result of sound level according to para.4.4. of annex 3 of ECE R117 and para. 4. 4 of Annex V appendix 1 of the Directive 92/23 : 73.9 dB(A)



Test Report

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Customer:

LLIT(THAILAND) CO.,LTD

Tyresize / -type:

445/45R19.5/ETT100



Used test equipment

Description	Require accuracy	Registration number
Vehicle speed	±0.1%	LC-5200 VBOX-III
Temperature	±1.5% -30~500℃ (-20~9320F)	RH2010-2-591180 FLUKE-62
Tyre pressure	60.0~106.0KPa / ±2KPa	DPH-102
Wind speed	0.4m/S	DEM6
Scale	±1KG	GT-16
Noise level meter	0.1dB	B&K2238

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Test Report

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Customer:

LLIT(THAILAND) CO.,LTD

Tyresize / -type:

445/45R19.5/ETT100



Statement of conformity

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IFM - Institut für Fahrzeugtechnik und Mobilität,
Schönscheidtstr. 28, 45307 Essen

Designated Technical Service
RDW No. RDWT-T04

Tianjin, China

2018-4-3

 Wang Xin Assessor, Automotive Homologation	
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Test Report

No.: CT117-A0-180020
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 Customer: LLIT(THAILAND) CO.,LTD
 Tyresize / -type: 445/45R19.5/ETT100



Mobilität

List of modifications

Appendix 1

More details for application of : **Date** :

Correction of : -

Modification of : -

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Deletion of : -

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ANNEX 2

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ANNEX 2 TO THE TEST REPORT
ADHESION ON WET SURFACES

Test Report

No.: CT117-A0-180021
Page: 1 / 6
Customer: LLIT(THAILAND) CO.,LTD
Tyresize / -type: 445/45R19.5/ETT100



Test Report

AGREEMENT Concerning the adoption of uniform technical prescriptions for wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles and the conditions for reciprocal recognition of approvals granted on the basis of these prescriptions

Uniform provisions concerning the approval of tyres with regard to rolling sound emissions and to adhesion on wet surfaces and/or to rolling resistance

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Test Report

No.: CT117-A0-180021
 Page: 2 / 6
 Customer: LLIT(THAILAND) CO.,LTD
 Tyresize / -type: 445/45R19.5/ETT100



Test Report/Prüfbericht (ECE-R117)

Inspection report regarding the wet grip(adhesion on wet surfaces) of a tyre in accordance with Annex6 of the ECE Regulation no. 117-02 up to and including supplement 8, test method(a) vehicle method

Part1-Report

1. Type approval authority or Technical Service : TÜV NORD Mobilität GmbH & Co. KG - Institut für Fahrzeugtechnik und Mobilität, Schönscheidtstr. 28, 45307 Essen
2. Name and address of applicant : LLIT(THAILAND) CO.,LTD
911/9Moo5, Khaokhansong, Sriracha,Chonburi 20110, Thailand
3. Test report No. : CT117-A0-180021
4. Manufacturer and Brand Name or Trade description : LINGLONG
5. Tyre Class (C1, C2 or C3) : Class C3
6. Category of use : Snow
7. Adhesion coefficient on wet surfaces relative to SRTT according to paragraphs 2.1.2.15 or 2.2.2.15: 1.09
8. Comments (if any) :
9. Date of test report : Apr 12, 2018


Test Report

No.: CT117-A0-180021
 Page: 3 / 6
 Customer: LLIT(THAILAND) CO.,LTD
 Tyresize / -type: 445/45R19.5/ETT100


Part2-Test data

1. Date of test : Sep 27, 2016
2. Test vehicle (Make, model, year, modifications, etc.) : JIANGHUAI
 VIN: LJ13RBBD3GA0021
- 2.1 Vehicle equipment Configuration : Configuration 1
3. Location of test track : Dingyuan Ground for highway and
 Traffic Fangang town,Dingyuan
 District,233210,Anhui,P.R. China
- 3.1 Test track characteristics: June 05, 2016
- 3.2. Issued by : TÜV NORD Mobilität GmbH & Co. KG
 IFM - Institut für Fahrzeugtechnik und
 Mobilität,Schönscheidtstr.28, 45307 Essen
- 3.3. Method of certification : BPN/ASTM E965
- 3.4 BPN(between 40 to 60): 50.74
- 3.5 Texture depth (mm): 0.78
- 3.6 Water depth (mm): between 0.5 to 2.0
4. Tyre test details
- 4.1. Tyre size designation/DOT Number : 445/45R19.5/1116
- 4.2. Tyre service description : Snow
 Load Index : 160
 Speed Category : J
- 4.3. Reference inflation pressure : 900kPa
 Reference load: 4500kg

4.4. Test data				
Tyre	SRTT (before)	Candidate	SRTT (after)	Control
Front axle pressure (kPa)	770	630	770	/
Rear axle pressure (kPa)	865	690	865	/
Front axle load (kg)	6622	6622	6622	/
Rear axle load (kg)	7266	7266	7266	/
Water depth(mm) (from 0.5 to 1.5mm)	1.3	1.4	1.3	/
Ambient temp (°C)	30.6	31.0	31.4	/
Wetted track temperature average (C°)	28.0	27.6	28.0	/

- 4.5. Test rim width code : 14.00X19.5
- 4.6. Temperature measurement sensor type : FLUKE-62
- 4.7 identification of the SRTT: HAKP OOTX 3014


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CT117-A0-180021

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Customer:

LLIT(THAILAND) CO.,LTD

Tyresize / -type:

445/45R19.5/ETT100



5. Valid Test results:

5.1 Standard vehicle procedure:

5.2 Configuration C1:candidate tyres on both axles:

Wet Grip Index= BFC (T) / BFC (R)

Run No.	Test speed	Direction	SRTT(before)		Candidate (No 2 of 3)		SRTT(after)	
			315/70R22.5		445/45R19.5		315/70R22.5	
			Distance (m)	Mfdd(m/s ²)	Distance (m)	Mfdd(m/s ²)	Distance (m)	Mfdd(m/s ²)
1	67-63	E-W	32.79	3.77	28.52	4.33	32.79	3.77
2	67-63	E-W	31.19	3.96	29.47	4.19	32.66	3.78
3	67-63	E-W	31.80	3.88	29.86	4.13	32.56	3.79
4	67-63	E-W	/	/	29.63	4.17	/	/
5	67-63	E-W	/	/	30.17	4.09	/	/
6	67-63	E-W	/	/	29.37	4.20	/	/
Average AD(m/s ²)			31.93	3.87	29.50	4.19	32.67	3.78
Standard deviation(m/s ²)			0.66	0.10	0.51	0.08	0.09	0.01
Validation of results								
Coefficient of variation(<3%)				2.52%		1.93%		0.35%
Total coefficient of variation								
SRTT(<3%)								
Adjusted average AD ref. tyre:						3.83		
Ra(m/s ²)								
BFC (R)					0.390			
BFC (T)					0.427			
Wet grip index(G)					1.09			



Test Report

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Customer:

LLIT(THAILAND) CO.,LTD

Tyresize / -type:

445/45R19.5/ETT100



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Designated Technical Service
RDW No. RDWT-T04

Tianjin, China

2018-4-12

 Wang Xin Assessor, Automotive Homologation	
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Test Report

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Customer:

LLIT(THAILAND) CO.,LTD

Tyresize / -type:

445/45R19.5/ETT100



Mobilität

List of modifications

Appendix 1

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**ANNEX 3 TO THE TEST REPORT
ROLLING RESISTANCE**

Test Report

No.:

CT117-A0-180019

Page:

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Customer:

LLIT(THAILAND) CO.,LTD

Tyresize / -type:

445/45R19.5/ETT100



Test Report

AGREEMENT Concerning the adoption of uniform technical prescriptions for wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles and the conditions for reciprocal recognition of approvals granted on the basis of these prescriptions

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Test Report

No.: CT117-A0-180019
 Page: 2 / 5
 Customer: LLIT(THAILAND) CO.,LTD
 Tyresize / -type: 445/45R19.5/ETT100



Test Report/Prüfbericht (ECE-R117)

Inspection report regarding the tyre rolling resistance in accordance with ECE Regulation no. 117-02 up to and including supplement 8.

Part1-Report

- | | |
|---|---|
| 1. Type approval authority or Technical Service : | TÜV NORD Mobilität GmbH & Co. KG - Institut für Fahrzeugtechnik und Mobilität, Schönscheidtstr. 28, 45307 Essen |
| 2. Name and address of applicant : | LLIT(THAILAND) CO.,LTD
911/9Moo5, Khaokhansong, Sriracha,Chonburi 20110, Thailand |
| 3. Test report No. : | CT117-A0-180019 |
| 4. Manufacturer and Brand Name or Trade description : | LINGLONG |
| 5. Tyre Class (C1, C2 or C3) : | Class C3 |
| 6. Category of use : | Snow |
| 7. Rolling resistance coefficient (temperature and drum diameter corrected) | 5.85 |
| 8. Comments (if any) : | - |
| 9. Date of test report : | Apr 03, 2018 |



Test Report

No.: CT117-A0-180019
 Page: 3 / 5
 Customer: LLIT(THAILAND) CO.,LTD
 Tyresize / -type: 445/45R19.5/ETT100



Part2-Test data

1. Date of test : July 19, 2017
2. Test machine identification and drum diameter/surface : 18649-1,1.7m,smooth steel
3. Test tyre details
 - 3.1. Tyre size designation : 445/45R19.5
Load Index : 156
Speed Category : J
 - 3.2. Tyre brand and trade description : LINGLONG
 - 3.3. Reference inflation pressure : 900kPa
4. Test data
 - 4.1 Measurement method : Torque method
 - 4.2 Test speed : 60.0km/h
 - 4.3. Test load : 33343N
4.3.1 Input torque at 85% load 173.2N.M
 - 4.4. Test inflation pressure initial: 900kpa
 - 4.5 Distance from the tyre axis to the drum outer surface under steady state condititions 442.0mm
 - 4.6 Test rim: 15.00X19.5
 - 4.7 Ambient temperature: 27.0C°
 - 4.8 Skim test load(except deceleration method): 399N
 - 4.9 Input torque(Ti): 4.9N.M
5. Rolling resistance coefficient
 - 5.1 initial value: 5.98
5.1.1 initial value after 2.0M drum correction: 5.83
 - 5.2 Temperature corrected N/KN: 0.02
 - 5.3 Temperature and drum diameter corrected: 5.85



Test Report

No.: CT117-A0-180019
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 Customer: LLIT(THAILAND) CO.,LTD
 Tyresize / -type: 445/45R19.5/ETT100



Statement of conformity

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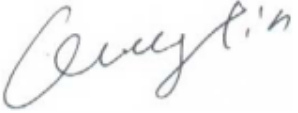
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 Designated Technical Service
 RDW No. RDWT-T04

Tianjin, China

2018-4-3

 Wang Xin Assessor, Automotive Homologation	
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Test Report

No.:

CT117-A0-180019

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Customer:

LLIT(THAILAND) CO.,LTD

Tyresize / -type:

445/45R19.5/ETT100



Mobilität

List of modifications

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REPORT N° CN25022223

UN REGULATION 117R02/16 RELATED TO SNOW PERFORMANCE TEST

Applicant	: LLIT (THAILAND) CO., LTD. 911/9 Moo 5, Khaokhansong 20110, Sriracha, CHONBURI (TAILANDIA / THAILAND)
Manufacturer	: LLIT (THAILAND) CO., LTD. 911/9 Moo 5, Khaokhansong 20110, Sriracha, CHONBURI (TAILANDIA / THAILAND)
Tyre class	: C3
Category of use	: Snow (for use in severe snow conditions)
Traction tyre	: No
Brand name / Trade mark	: Infinity
Trade description/ Commercial name	: ETT100
Tyre size	: 385/55R19.5 156J
Snow grip index relative to SRTT according to paragraph 6.4.1.1.	: 1.55
Test procedure	: Acceleration method
Place and date of issue	: L'Albornar, Santa Oliva (Tarragona), 26/02/2025

CONCLUSIONS: The samples of the family have been tested according to the technical prescriptions with regard to "snow performance testing relative to tyres for use in severe snow conditions" pursuant to UN REGULATION 117R02/16 Annex 7.

The characteristics of the tested samples are detailed in the annex to the test report.

Performed by:



Chen(Jacky) Zhu
HOMOLOGATION ENGINEER

Revised by:



Josep Masip Gomez
DEPARTMENT MANAGER



ANNEX TO THE TEST REPORT

SNOW PERFORMANCE, REPORT N° CN25022223

1. TEST DATA

1.1. Test tyre details

1.1.1	Applicant ⁽¹⁾	: LLIT (THAILAND) CO., LTD. 911/9 Moo 5, Khaokhansong 20110, Sriracha, CHONBURI (TAILANDIA / THAILAND)
1.1.2	Manufacturer ⁽¹⁾	: LLIT (THAILAND) CO., LTD. 911/9 Moo 5, Khaokhansong 20110, Sriracha, CHONBURI (TAILANDIA / THAILAND)
1.1.3	Tyre class	: C3
1.1.4	Category of use	: Snow (for use in severe snow conditions)
1.1.5	Traction tyre	: No
1.1.6	Brand name / Trade mark	: Infinity
1.1.7	Trade description / Commercial name	: ETT100
1.1.8	Tyre size	: 385/55R19.5 156J
1.1.9	Load index / Corresponding mass Q _r [kg]	: 156 / 4,000
1.1.10	Tyre structure	: Radial
1.1.11	Date code, other manufacturer markings	: 2319
1.1.12	Reference inflation pressure [kPa]	: 900
1.1.13	Test rim	: 11.75 x 19.5
1.1.14	Test SRTT identification	: MICHELIN 315/70 R22.5 - ASTM F 2870
1.1.15	Test SRTT rim	: 9.00 x 22.5

⁽¹⁾ Information provided by the client. The laboratory is not responsible for such information



1.1.16 Test tyre load [kg] :

	SRTT 1		Candidate tyre		SRTT 2	
Rear Left	920	25% Q _r	920	23% Q _r	920	25% Q _r
Rear Right	935	25% Q _r	935	23% Q _r	935	25% Q _r

20% Q_r ≤ Test tyre load ≤ 55% Q_r

FULFILS / ~~NOT FULFILS~~

1.1.17 Test tyre pressure [bar] :

	SRTT 1		Candidate tyre		SRTT 2	
	RL	RR	RL	RR	RL	RR
Nominal	9.0	9.0	9.0	9.0	9.0	9.0
Actual	6.3	6.3	6.3	6.3	6.3	6.3

Test tyre pressure: 70% of the pressure written on the sidewall, if not, refer to the specified pressure in applicable tyre standards manuals corresponding to maximum load capacity.

FULFILS / ~~NOT FULFILS~~

1.2. Test vehicle

1.2.1 Trade name : Ford

1.2.2 Model : F250

1.2.3 Year : 2009

1.2.4 Transmission : Manual

1.2.5 Vehicle identification number : 1FTNF20599EB16406



1.3. Test equipment

1.3.1	Temperature	: Fluke 52-II, 31550028WS
1.3.2	Speed measurement device	: VBox 3i, 055004
1.3.3	Weight scale	: Dini Argeo, 0100635432B1, 010066855B1, 0100668546B1, 0100668560B
1.3.4	Tyre pressure	: Wika DG10, TW-IPM023
1.3.5	Snow hardness	: CTI Penetrometer, TW-PM004
1.3.6	Standard reference test tyre (SRTT)	: ASTM-F2870



2. TEST TRACK

2.1. Location : Test World Ltd., Mellatracks
2A

2.2. Test track characteristics measurement

	At start of tests	At end of tests	Specification
Weather	Indoor	Indoor	-
Ambient temperature T_a [°C]	-11.1 °C	-10.7 °C	-2 °C to -15 °C
Snow temperature T_s [°C]	-12.4 °C	-12.3 °C	-4 °C to -15 °C
CTI index	87		80 to 90

FULFILS / NOT FULFILS

3. TEST RESULTS

3.1. Test method : Acceleration

3.2. Test sequence : R1-T1-T2-R2

3.3. Candidate : T1

3.4. Speed (Initial - Final) : 10 – 25 km/h

4 km/h $\leq$ Initial speed $\leq$ 11 km/h
Final speed = Initial + 15 km/h

FULFILS / NOT FULFILS

3.5. Test results:

Test run	SRTT 1		Candidate		SRTT 2	
	Average acceleration [m/s ²]	Slip [%]	Average acceleration [m/s ²]	Slip [%]	Average acceleration [m/s ²]	Slip [%]
1	0.83	28	1.26	29	0.81	40
2	0.82	36	1.25	25	0.80	37
3	0.81	38	1.25	29	0.78	39
4	0.80	34	1.23	30	0.78	40
5	0.79	38	1.23	29	0.78	39
6	0.79	33	1.23	30	0.78	40

	SRTT 1	Candidate	SRTT 2
Mean [m/s ²]	0.81	1.24	0.79
Std. deviation	0.01	0.01	0.01
Coeff. of variation	1.8	0.8	1.6

Wa (SRTT) : 0.80
SRTT validation [%] : -2.3 %

10% $\leq$ Slip $\leq$ 40%
Coefficient of variation $\leq$ 6%
SRTT validation $\leq$ 6%

* THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE.
* THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN.
* MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY.
* THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE

IDIADA Automotive Technology, S.A. N.I.F. A43581610 Servicio Técnico Designado de Homologación (TS)



Snow Index: 1.55*

3.6 Limit values :

Class of tyre	Snow grip index (acceleration method)
	Ref: C3N-SRTT 19.5 Ref: C3W-SRTT 22.5
C3	1.25 (1.45**)

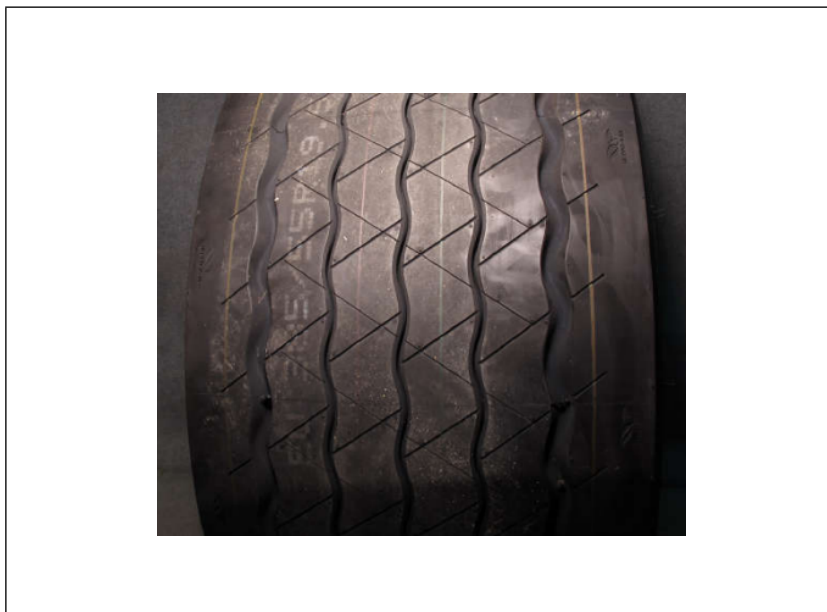
**These limit values represent the minimum required Snow grip index plus an extra safety margin allowing the sample to represent the whole tyre range.

Note:

*All data in this test report has been obtained from the test report number TW-TL20-LL152-E117SP



4. TEST TYRE PICTURE



Picture 1. Tread pattern

Place of test: UTAC Automotive Testing Finland Ltd., 2A
Date of test: 04/03/2020


Chen(Jacky) Zhu
HOMOLOGATION ENGINEER

DOCUMENTACIÓN TÉCNICA /
TECHNICAL DOCUMENTATION

SHANDONG LINGLONG TYRE CO., LTD.

Information folder No.: QG2025-004

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RELATING TO ECE TYPE-APPROVAL FOR A TYPE OF TYRE WITH REGARD TO ROLLING SOUND EMISSIONS AND TO ADHESION ON WET SURFACES

(ECE Regulation No. 117. 02)

1. GENERAL

1.1. The performance characteristics to be assessed for the tyre type : ~~rolling sound level and Rolling resistance level /~~ adhesion performance level on wet surfaces , rolling sound level and rolling resistance level

1.2. Manufacturer's name : LLIT(THAILAND)CO.,LTD.

1.3. Name and address of applicant : 911/9Moo5,Khaokhansong,Sriracha, Chonburi20110,Thailand

1.4. Address(es) of manufacturing plant(s) : the same as the applicant

1.5. Brand name(s), Trade description(s) or Trade mark(s) : Brand name:
LINGLONG; SHANLING; LEAO; Infinity;
BENCHMARK; CROSSWIND; BARKLEY;
HUBTRAC; GREEN MAX; SUMO FIRENZA;

to be used for particular tyre type-approval requested : Trade description :
ETT100; CWT10E; DRIVUS-T; GRT800;
HIGHWAY T11; ECO-EVER BLT11; HT51;
ETT100

1.6. Tyre type designation

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 whether:

2.4.1 Reinforced (or extra load) in case of approval with regarding to rolling sound emission level : not applicable

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 Category of use (normal, snow, special) : ~~normal / snow / special~~ / snow tyre for use in severe snow condition

2.6 Traction tyre : ~~Yes~~/No

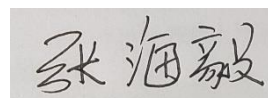
2.7 A list of tyre designations covered by this application : see attached list of tyre size

2.8 Details of major features, with respect to the effects : see attached drawing of tread pattern

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. This may be by drawing, photograph or description but must be sufficient to allow the type approval authority or technical service to determine whether any subsequent changes to the major features will adversely affect the tyre performance

MANUFACTURER'S STAMP

Signature:



Name: ...Zhang Haiyi...

THIS APPLICATION IS ACCOMPANIED BY:

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

SHANDONG LINGLONG TYRE CO., LTD.

Information folder No.: QG2025-004

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List of tyre size

Brand name(s) or Trade mark(s): LINGLONG; SHANLING; LEAO; Infinity; BARKLEY;
BENCHMARK; GREEN MAX; CROSSWIND;
HUBTRAC; SUMO FIRENZA;

Tread pattern: ETT100; GRT800; CWT10E; DRIVUS-T; HIGHWAY T11;
ECO-EVER BLT11; HT51

Tyre size	Approval No.	Limit dB(A)	Wet grip index(G)	Limit RRC(N/Kn)	Snow grip index
385/55R19.5 156J	E9-006067	74	≥ 0.715	≤ 7.5	≥ 1.25
425/65R22.5 165K	E9-006076	74	≥ 0.715	≤ 7.5	≥ 1.25
435/50R19.5 156J	E9-006078	74	≥ 0.715	≤ 7.5	≥ 1.25
435/50R19.5 160J	E9-006077	74	≥ 0.715	≤ 7.5	≥ 1.25
445/45R19.5 156J	E9-006080	74	≥ 0.715	≤ 7.5	≥ 1.25
445/45R19.5 160J	E9-006079	74	≥ 0.715	≤ 7.5	≥ 1.25
385/55R22.5 158L	E9-006069	74	≥ 0.715	≤ 7.5	≥ 1.25
385/55R22.5 160K(158L)	E9-006070	74	≥ 0.715	≤ 7.5	≥ 1.25
385/65R22.5 160K(158L)	E9-006073	74	≥ 0.715	≤ 7.5	≥ 1.25
385/65R22.5 164K(158L)	E9-006075	74	≥ 0.715	≤ 7.5	≥ 1.25

“iDiADA” CN25022221

SHANDONG LINGLONG TYRE CO., LTD.

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Rolling sound emission test size: 445/45R19.5 160J

Because of : ~~The largest nominal section width.~~
~~In case of tyres with same nominal section width select the smallest aspect ratio.~~
In case of tyres with same nominal section width and aspect ratio select the largest rim diameter.

Rolling resistance test size: 445/45R19.5 156J

Because of : ~~The largest nominal section width.~~
~~In case of tyres with same nominal section width select the smallest aspect ratio.~~
~~In case of tyres with same nominal section width and aspect ratio select the largest rim diameter.~~
Lowest load index

Wet grip test Size: 445/45R19.5 160J

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.**

Peak snowflake test Size : 385/55R19.5 156J

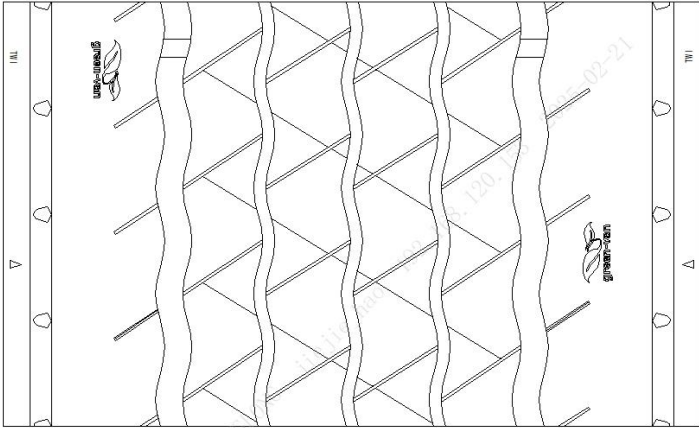
Because of : The smallest nominal section width.

SHANDONG LINGLONG TYRE CO., LTD.

Information folder No.: QG2025-004

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Drawing of the tread pattern (for measured tyre)

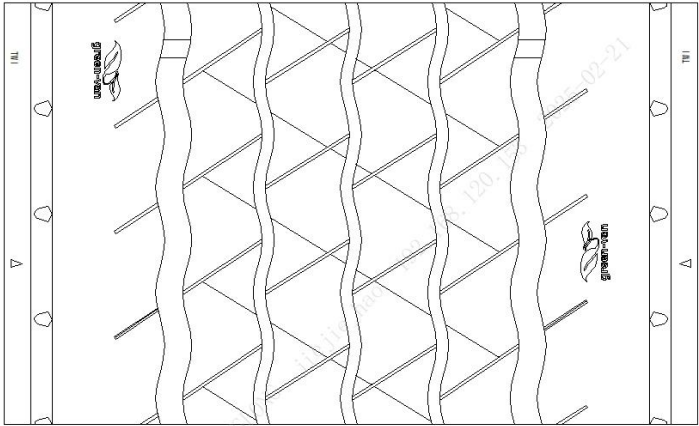
Manufacturer name	LLIT(THAILAND) CO.,LTD
Pattern name	LINGLONG: ETT100 SHANLING: ETT100 LEAO: ETT100 Infinity: ETT100 BENCHMARK: ETT100 GREEN MAX: GRT800 CROSSWIND: CWT10E SUMO FIRENZA: DRIVUS-T HUBTRAC: HIGHWAY T11 BARKLEY: ECO-EVER BLT11
Tyre Size	445/45R19.5 160J
Market	EU/US
Pitch number	40
Pitch ratio	1.00
Void volume [%]	15.1
Width: main grooves [mm]	18/8/8/8/18
Depth: center groove [mm]	13
Depth: shoulder groove [mm]	13
Pattern	

SHANDONG LINGLONG TYRE CO., LTD.

Information folder No.: QG2025-004

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Drawing of the tread pattern (for measured tyre)

Manufacturer name	LLIT(THAILAND) CO.,LTD
Pattern name	LINGLONG: ETT100 SHANLING: ETT100 LEAO: ETT100 Infinity: ETT100 BENCHMARK: ETT100 GREEN MAX: GRT800 CROSSWIND: CWT10E SUMO FIRENZA: DRIVUS-T HUBTRAC: HIGHWAY T11
Tyre Size	BARKLEY: ECO-EVER BLT11
Market	445/45R19.5 156J EU/US
Pitch number	40
Pitch ratio	1.00
Void volume [%]	15.1
Width: main grooves [mm]	18/8/8/8/18
Depth: center groove [mm]	13
Depth: shoulder groove [mm]	13
Pattern	

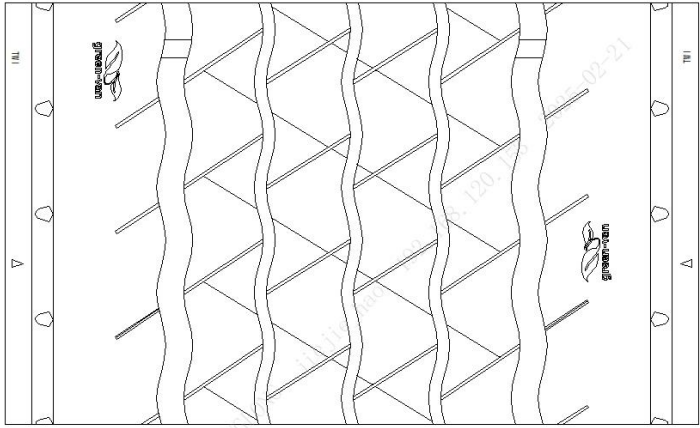
SHANDONG LINGLONG TYRE CO., LTD.
CN25022221

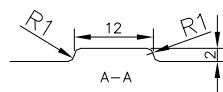
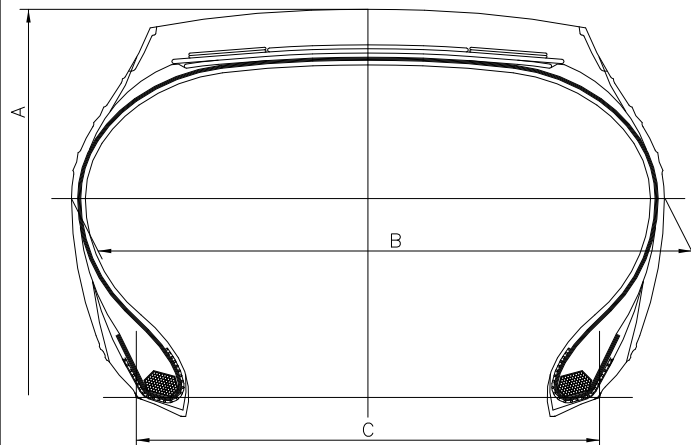
SHANDONG LINGLONG TYRE CO., LTD.

Information folder No.: QG2025-004

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Drawing of the tread pattern (for measured tyre)

Manufacturer name	LLIT(THAILAND) CO.,LTD
Pattern name	LINGLONG: ETT100 SHANLING: ETT100 LEAO: ETT100 Infinity: ETT100 BENCHMARK: ETT100 GREEN MAX: GRT800 CROSSWIND: CWT10E SUMO FIRENZA: DRIVUS-T HUBTRAC: HIGHWAY T11
Tyre Size	BARKLEY: ECO-EVER BLT11
Market	385/55R19.5 156J EU/US
Pitch number	41
Pitch ratio	1.00
Void volume [%]	15.4
Width: main grooves [mm]	16/7/7/7/16
Depth: center groove [mm]	13
Depth: shoulder groove [mm]	13
Pattern	



TREAD
PATTERNS

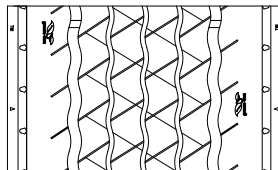
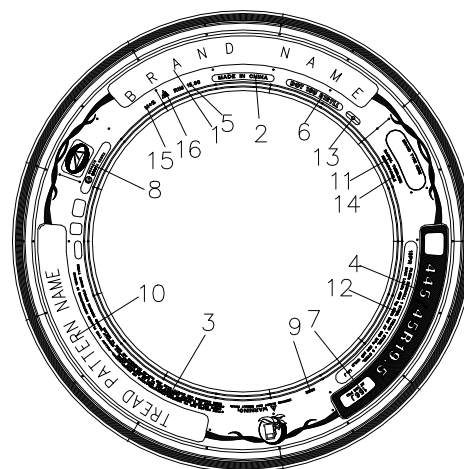
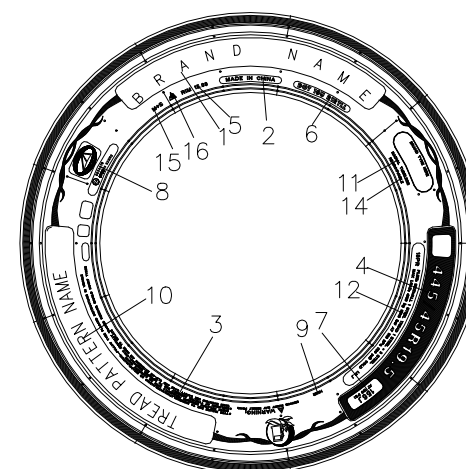


TABLE 1

BRAND NAME	TREAD PATTERN NAME
LINGLONG	ETT100
SHANLING	ETT100
LEAO	ETT100
Infinity	ETT100
BENCHMARK	ETT100
GREEN MAX	GRT800
CROSSWIND	CWT10E
SUMO FIRENZA	DRIVUS-T
BARKLEY	ECO-EVER BLT11



LOWER MOLD



UPPER MOLD

16	▲
15	M+S
14	REGROOVABLE
13	**** (PRODUCTION DATE)
12	20PR PLIES 1 STEEL TREAD 1 STEEL + 3 STEEL MAX. LOAD SINGLE 4500 kg(9920 lbs) AT 900 kPa(130 psi) COLD LR.L
11	RADIAL TUBELESS
10	PLEASE SEE THE TABLE 1 ON THE LEFT
9	**** (MOLD NUMBER)
8	E9 006079 021263 S2WR2
7	160J 900kPa
6	DOT. . .
5	RIM 15.00
4	445/45R19.5
3	WARNING:...
2	MADE IN THAILAND
1	PLEASE SEE THE TABLE 1 ON THE LEFT
	LOWER MOLD
	UPPER MOLD

445/45R19.5	160	J	TL	895	446	381
TIRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)

Approve by:

张海毅

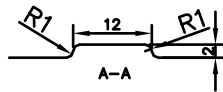
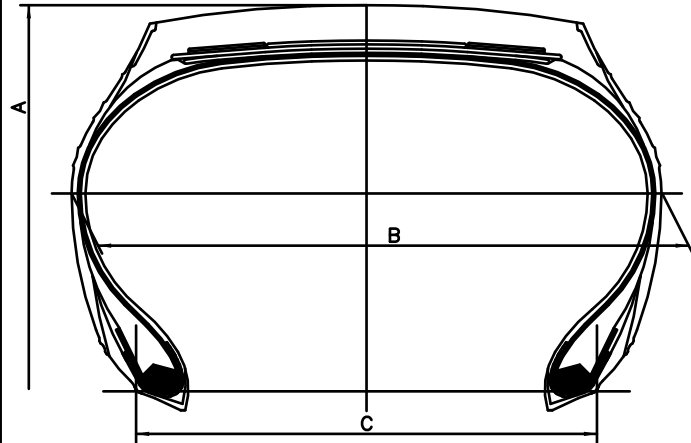
Check by:

张艳

Draft by:

温伟

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TREAD
PATTERNS

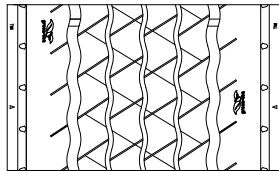
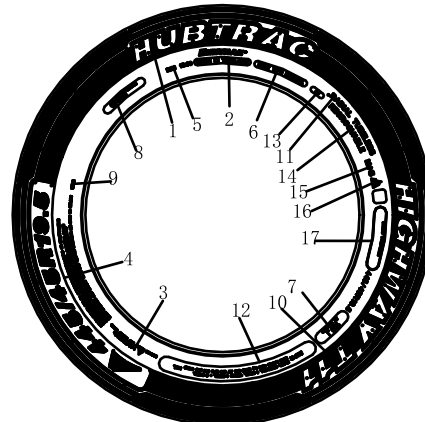


TABLE 2

BRAND NAME	TREAD PATTERN NAME
HUBTRAC	HIGHWAY T11



LOWER MOLD



UPPER MOLD

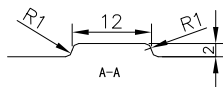
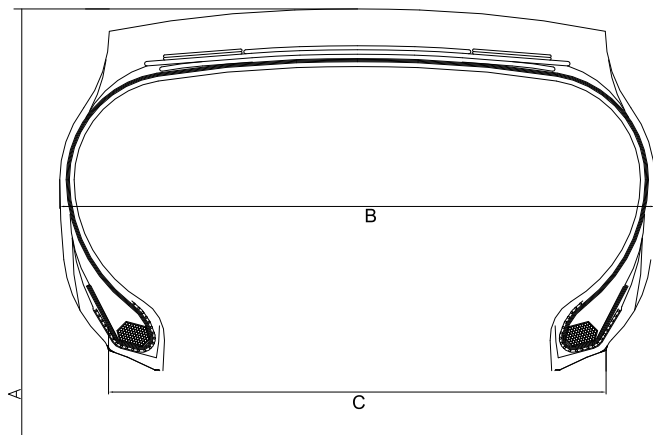
17	BRAND TYRE HERE
16	
15	M+S
14	REGROOVABLE
13	**** (PRODUCTION DATE)
12	20PR PLIES 1 STEEL TREAD 1 STEEL + 3 STEEL MAX. LOAD SINGLE 4500 kg(9920 lbs) AT 900 kPa(130 psi) COLD LR.L
11	RADIAL TUBELESS
10	PLEASE SEE THE TABLE 2 ON THE LEFT
9	**** (MOLD NUMBER)
8	 006079 021263 S2WR2
7	445/45R19.5 160J AT 900kPa
6	DOT...
5	RIM 15.00
4	445/45R19.5
3	WARNING:...
2	MADE IN THAILAND
1	PLEASE SEE THE TABLE 2 ON THE LEFT
	LOWER MOLD
	UPPER MOLD

445/45R19.5	160	J	TL	895	446	381
TIRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)

Approve by: 张海毅

Check by: 张艳

Draft by: 张艳 Page 2 of 6



TREAD
PATTERNS

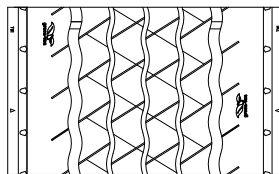


TABLE 3

BRAND NAME	TREAD PATTERN NAME
HUBTRAC	HIGHWAY T11



UPPER MOLD



LOWER MOLD

17		
16	M+S	
15		**** (PRODUCTION DATE)
14	E9 006067 021263 S2WR2	
13	385/55R19.5	156J AT 900 kPa
12	BRAND TYRE HERE	
11	RIM 12.25	
10	385/55R19.5	
9	**** (MOLD NUMBER)	
8	DOT...	
7	RADIAL TUBELESS	
6	WARNING.....	
5	PLEASE SEE THE TABLE 3 ON THE LEFT	
4	MADE IN	
3	18PR PLIES:SIDEWALL 1 STEEL TREAD 1 STEEL+3 STEEL MAX LOAD:SINGLE 4000 kg (8810 lbs) AT 900 kPa (130 psi) COLD LR.J	
2	REGROOVABLE	
1	PLEASE SEE THE TABLE 3 ON THE LEFT	
	UPPER MOLD	LOWER MOLD

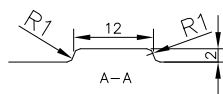
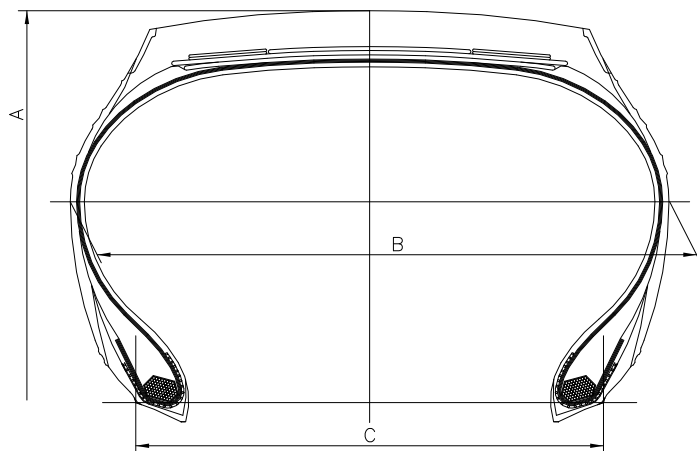
385/55R19.5	156	J	TL	919	386	311.0
TYRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)

Approve by: 张海波

Check by: 张艳

Draft by: 张艳

Page 3 of 6



TREAD
PATTERNS

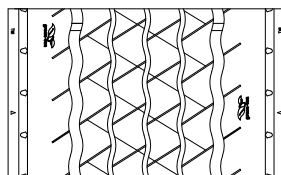
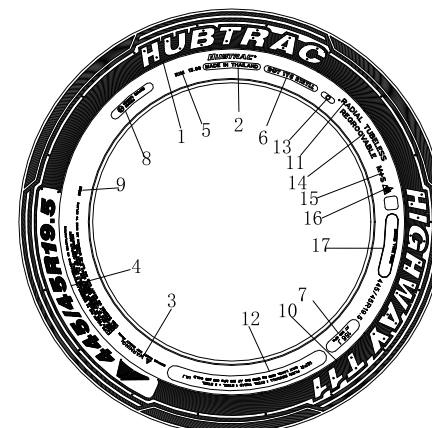


TABLE 4

BRAND NAME	TREAD PATTERN NAME
HUBTRAC	HIGHWAY T11



LOWER MOLD



UPPER MOLD

17	BRAND TYRE HERE
16	
15	M+S
14	REGROOVABLE
13	**** (PRODUCTION DATE)
12	18PR PLIES 1 STEEL TREAD 1 STEEL + 3 STEEL MAX.LOAD SINGLE 4000 kg(8810 lbs) AT 900 kPa(130 psi) COLD LR.J
11	RADIAL TUBELESS
10	PLEASE SEE THE TABLE 4 ON THE LEFT
9	**** (MOLD NUMBER)
8	(E9) 021263 S2WR2 006080
7	445/45R19.5 156J AT 900kPa
6	DOT...
5	RIM 15.00
4	445/45R19.5
3	WARNING:...
2	MADE IN
1	PLEASE SEE THE TABLE 4 ON THE LEFT
	LOWER MOLD
	UPPER MOLD

445/45R19.5	156	J	TL	895	446	381
TIRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)

Approve by: 张海毅

Check by: 张艳

Draft by: 张艳 Page 4 of 6

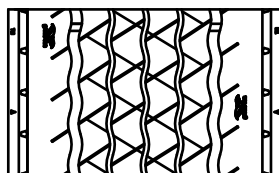
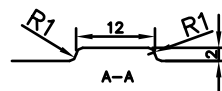
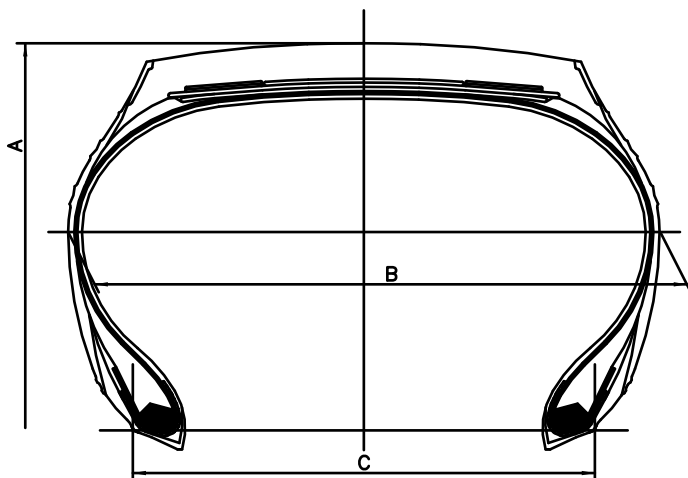
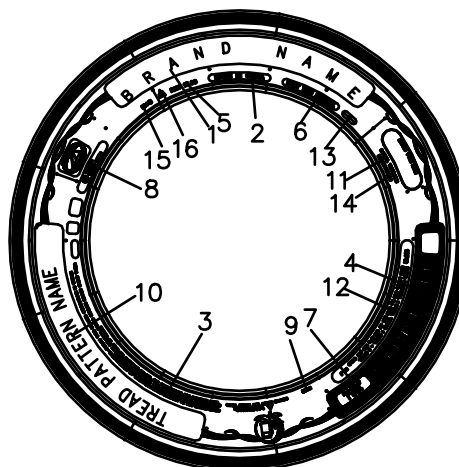
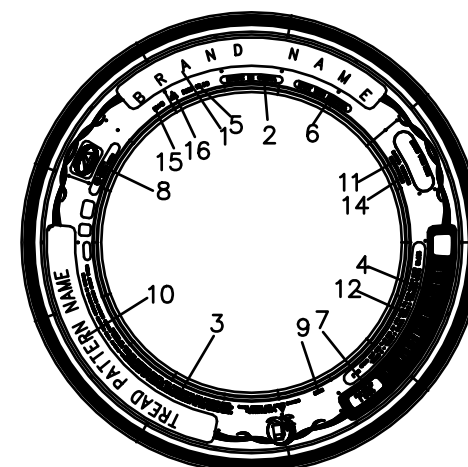


TABLE 5

BRAND NAME	TREAD PATTERN NAME
LINGLONG	ETT100
SHANLING	ETT100
LEAO	ETT100
Infinity	ETT100
BENCHMARK	ETT100
GREEN MAX	GRT800
CROSSWIND	CWT10E
SUMO FIRENZA	DRIVUS-T



LOWER MOLD



UPPER MOLD

16	▲
15	M+S
14	REGROOVABLE
13	**** (PRODUCTION DATE)
12	18PR PLIES 1 STEEL TREAD 1 STEEL + 3 STEEL MAX. LOAD SINGLE 4000 kg (8810 lbs) AT 900 kPa (130 psi) COLD LR.J
11	RADIAL TUBELESS
10	PLEASE SEE THE TABLE 5 ON THE LEFT
9	**** (MOLD NUMBER)
8	(E9) 006080 021263 S2WR2
7	156J 900kPa
6	DOT...
5	RIM 15.00
4	445/45R19.5
3	WARNING:...
2	MADE IN THAILAND
1	PLEASE SEE THE TABLE 5 ON THE LEFT
LOWER MOLD	
UPPER MOLD	

445/45R19.5	156	J	TL	895	446	381
TIRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)

Approve by:

张海波

Check by:

张艳

Draft by:

张艳

Page 5 of 6

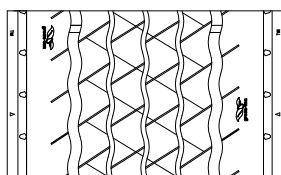
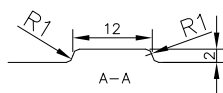
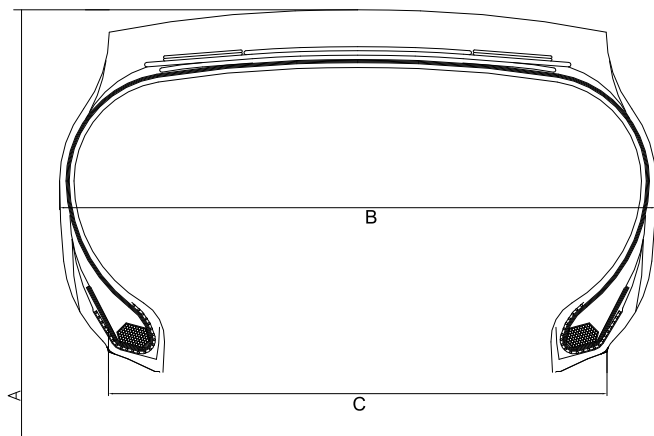
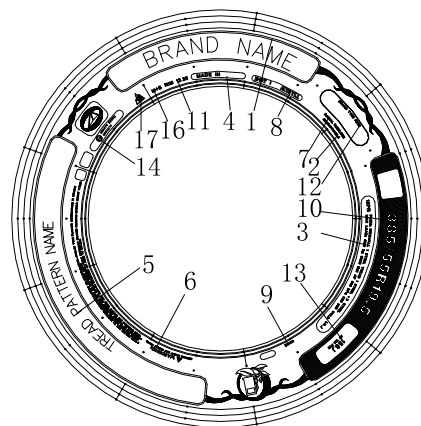
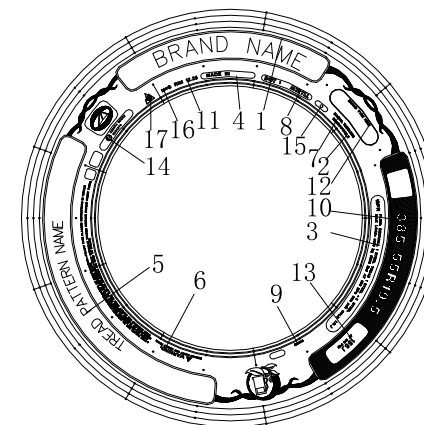


TABLE 6

BRAND NAME	TREAD PATTERN NAME
LINGLONG	ETT100
SHANLING	ETT100
LEAO	ETT100
Infinity	ETT100
BENCHMARK	ETT100
GREEN MAX	GRT800
CROSSWIND	CWT10E
SUMO FIRENZA	DRIVUS-T



UPPER MOLD



LOWER MOLD

17	▲
16	M+S
15	**** (PRODUCTION DATE)
14	(E9) 021263 S2WR2 006067
13	156J AT 900 kPa
12	BRAND TYRE HERE
11	RIM 12.25
10	385/55R19.5
9	**** (MOLD NUMBER)
8	DOT...
7	RADIAL TUBELESS
6	WARNING.....
5	PLEASE SEE THE TABLE 6 ON THE LEFT
4	MADE IN THAILAND
3	18PR PLIES:SIDEWALL 1 STEEL TREAD 1 STEEL+3 STEEL MAX LOAD:SINGLE 4000 kg (8810 lbs) AT 900 kPa (130 psi) COLD LR. J
2	REGROOVABLE
1	PLEASE SEE THE TABLE 6 ON THE LEFT
	UPPER MOLD
	LOWER MOLD

385/55R19.5	156	J	TL	919	386	311.0
TYRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)

Approve by: 张海波

Check by: 张艳

Draft by: 张艳 Page 6 of 6