



SAFETY AND COMPLIANCE TESTING FOR CPSC 16 CFR 1203 BICYCLE HELMETS

Brand : LEATT
Model : LT1701-MTB ENDURO 3.0
Tested Size : M (55-59 cm)
Stock / Model Number : Not Specified
Country of Origin : China
Age Grading : 5 and older
Children's Product : Not Specified

Prepared For:

Leatt Corporation
12 Kiepersol Crescent,
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Cape Farms, Cape Town,
7550, ZA



Issue Date: 08 April 2021

Final Report: 904.06126.002

Tested By:

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Contract File No.: 904.06126

Test File: 002

Control Document: Official ACT/CPSC 1203/Report Template/CN 19 March 2021 Rev.6
SharePoint/GlobalResourceLibrary/Reporting/ReportTemplates/Helmets/CPSC

Technician: Edward Wang

Test Date: 30 March 2021



HELMET DATA

HELMET BRAND NAME: LEATT

HELMET MODEL DESIGNATION: LT1701-MTB ENDURO 3.0

HELMET MANUFACTURER: LEATT CORPORATION

HELMET SIZE: M (55-59 cm)

BUCKLE DESCRIPTION: Fidlock

LOT NUMBER: TBD

EPS COLOR: Black

HELMET COVERAGE: Partial _____ Full: _____ Complete: X

TEST HEADFORM SIZE: ISO J

HELMET POSITIONING INDEX: 17 mm

AGE GRADING: 5 and older

| HELMET | #1 Ambient | #2 Hot | #3 Cold | #4 Wet | #5 Ambient | #6 Hot | #7 Cold | #8 Wet |
|-----------------------------------|---------------|-----------|------------|-----------|---------------|-----------|------------|-----------|
| SHELL COLOR/PATTERN | Multi | Multi | Multi | Multi | Multi | Multi | Multi | Multi |
| WEIGHT (grams) | 365 | 372 | 367 | 365 | 365 | 367 | 368 | 366 |
| MONTH & YEAR OF MANUFACTURE | 05/16 | 05/16 | 05/16 | 05/16 | 05/16 | 05/16 | 05/16 | 05/16 |



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TEST SUMMARY

| Requirements | Pass/Fail |
|---|-------------|
| 1203.5 Projections | Pass |
| 1203.6 Labeling and Instructions | Pass |
| 1203.34 Product Certification and Labeling | Pass |
| 1203.12 Test Requirements | --- |
| (a) Peripheral Vision (degrees) | Pass |
| (b) Positional Stability, Face Down | Pass |
| (b) Positional Stability, Face Up | Pass |
| (c) Dynamic Strength of Retention System | Pass |
| (d) Impact Attenuation | Pass |

Reviewed by

Comments:

1. All helmets were received in undamaged condition and were appropriate for testing.
2. Weights listed above for helmets 1-8 are as tested with chin bar and visor removed.
3. This helmet met all CPSC 1203 requirements.

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CPSC 1203.6(a): Requirements for Labeling and Instructions of Bicycle Helmets

| LABELING Each helmet shall be marked with durable labeling so that the following information is legible and easily visible to the user: | | |
|---|--|--|
| Required Information: Section 1203.6(a) | | Present on Helmet Pass/Fail |
| 1. | Model designation. | Pass |
| 2. | A warning to the user that no helmet can protect against all possible impacts and that serious injury or death could occur. | Pass |
| 3. | Warning on both the helmet and the packaging that for maximum protection the helmet must be fitted and attached properly to the wearer's head in accordance with the manufacturer's fitting instructions. | Pass |
| 4. | A warning to the user that the helmet may, after receiving an impact, be damaged to the point that it is no longer adequate to protect the head against further impacts, and that this damage may not be visible to the user. This label shall also state that a helmet that has sustained an impact should be returned to the manufacturer for inspection, or be destroyed and replaced. | Pass |
| 5. | A warning to the user that the helmet can be damaged by contact with common substances (for example, certain solvents {ammonia}, cleaners {bleach}, etc.), and that this damage may not be visible to user. This label shall state in generic terms some recommended cleaning agents and procedures (for example, wipe with mild soap and water), list the most common substances that damage the helmet, warn against contacting the helmet with these substances, and refer users to the instruction manual for more specific care and cleaning information. | Pass |
| 6. | Signal Word - The labels required by paragraphs (a)(2) through (5) of this section shall include the signal word "WARNING" at the beginning of each statement, unless two or more of the statements appear together on the same label. In that case, the signal word need only appear once, at the beginning of the warnings. The signal word "WARNING" shall be all capital letters, bold print, and a type size equal to or greater than the other text on the label. | Pass |
| | | |
| Instructions. Each helmet shall have fitting and positioning instructions, including a graphic representation of proper positioning. | | Pass (owner's manual) |



CPSC 1203.34: Product Certification and Labeling by Manufacturers (incl. Importers)

(a) *Form of permanent label certification –*

Manufacturers, as defined in 1203.32(a), shall issue certificates of compliance for bicycle helmets manufactured after March 11, 1999, in the form of a durable, legible, and readily visible label, meeting the requirements of this section. This label is the helmet's certificate of compliance, as that term is used in section 14 of the CPSCA, 15 U.S.C. 2063.

(b) *Contents of certification label –*

The Certification labels required by this section shall contain the following:

| Does the helmet provide the following certification information per section 1203.34(b) | | Present on Helmet Pass/Fail |
|--|---|--------------------------------|
| 1. | The statement "Complies with U.S. CPSC Safety Standard for Bicycle Helmets for Persons Age 5 and Older" or "Complies with U.S. CPSC Safety Standard for Bicycle Helmets for Persons Age 1 and Older (Extended Head Coverage)," as appropriate; this label may spell out "U.S. Consumer Product Safety Commission" instead of "U.S. CPSC;" | Pass |
| 2. | The name of the U.S. manufacturer or importer responsible for issuing the certificate or the name of a private labeler; | Pass |
| 3. | The address of the U.S. manufacturer or importer responsible for issuing the certificate or, if the name of a private labeler is on the label, the address of the private labeler; | Pass |
| 4. | The name and address of the foreign manufacturer, if the helmet was manufactured outside the United States; | Pass |
| 5. | The telephone number of the U.S manufacturer or importer responsible for issuing the certificate or, if the name of a private labeler is on the label, the telephone number of the private labeler; | Pass |
| 6. | An identification of the production lot; and | Pass |
| 7. | The uncoded month and year the product was manufactured. | Pass |



CPSC 1203.34:
Product Certification and Labeling by manufacturers (continued)

| | | |
|-----|--|------|
| 8. | <p>(c) Coding - <i>(c)(1) The information required by paragraphs (b)(4) and (b)(6) of this section, and the information referred to in paragraph (c)(2) of this section, may be in code, provided:</i> (i) The person or firm issuing the certificate maintains a written record of the meaning of each symbol used in the code and (ii) The record shall be made available to the distributor, retailer, consumer and Commission upon request. (c)(2) <i>A serial number may be used in place of production lot identification on the helmet if it can serve as a code to identify the production lot. If a bicycle helmet is manufactured for sale by a private labeler, and if the name of the private labeler is on the certification label, the name of the manufacturer or importer issuing the certificate, and the name and address of any foreign manufacturer, may also be in code.</i></p> | Pass |
| 9. | <p>(d) Placement of the label(s). The information required by paragraphs (b) (2), (b) (3), and (b) (5) of this section must be on one label.</p> | Pass |
| 10. | <p>The other required information may be on separate labels. The label(s) required by this section must be affixed to the bicycle helmet. If the label(s) are not immediately visible to the ultimate purchaser of the bicycle helmet prior to purchase because of packaging or other marketing practices, a second label is required. That label shall state, as appropriate, "Complies with U.S. CPSC Safety Standard for Bicycle helmets for Persons Age 5 and Older," or "Complies with U.S. CPSC Safety Standard for Bicycle Helmets for Persons Age 1 and Older (Extended Head Coverage)." The label shall be legible, readily visible, and placed on the main display panel of the packaging or, if the packaging is not visible before purchase (e.g., catalog sales), on the promotional material used with the sale of the bicycle helmet. This label may spell out "U.S. Consumer Product Safety Commission" instead of "U.S. CPSC."</p> | Pass |



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LOT: #####
MAY 2016

SERIAL NUMBER

LEATT **CE**
LT1701
CERTIFIED TO EN 10878:2012 + A1:2012
MTB ENDURO 3.0
M 55 - 59CM / 775g

ATTENTION !
AUCUN CASQUE NE PEUT EMPECHER TOUTE BLESSURE A LA TETE OU LA MORT. LIRE LE MANUEL AVANT UTILISATION. POUR UNE PROTECTION MAXIMALE, CE CASQUE DOIT ETRE PORTE ET AJUSTE CORRECTEMENT A LA TETE CONFORMEMENT AUX INSTRUCTIONS DANS LE MANUEL. APRES TOUT IMPACT, LES DOMMAGES PEUVENT ETRE INVISIBLES. LES SOLVANTS PEUVENT ENDOMMAGER LE CASQUE INVISIBLEMENT. NETTOYER UNIQUEMENT AVEC DU SAVON ET DE L'EAU. CE CASQUE NE DOIT PAS ETRE UTILISE PAR DES ENFANTS POUR FAIRE TOUTES AUTRES ACTIVITES D'ESCALADE QUAND IL Y A UN RISQUE DE STRANGULATION SI L'ENFANT RESTE ACCROCHE AVEC LE CASQUE. CE CASQUE EST CONCU POUR LES CYCLISTES, LA PLANCHE A ROULETTE OU LE PATIN A ROULETTES. FABRIQUE DE POLYSTYRENE EXPANSE, CE CASQUE PEUT ETRE SERIEUSEMENT ENDOMMAGE PAR DES SUBSTANCES TELLES QUE LES SOLVANTS, LA PEINTURE, LES COLLES ET PRODUITS DE NETTOYAGE.

MADE BY LEATT CORPORATION,
26475 SUMMIT CIRCLE, SANTA CLARITA,
CA 91350,
PHONE: +1 (800) 691 3314

"MADE IN CHINA"
COMPLIES WITH U.S. CPSC SAFETY
STANDARD FOR BICYCLE HELMETS
FOR PERSONS AGE 5 AND OLDER

WARNING! NO HELMET CAN PREVENT ALL HEAD INJURIES OR DEATH. READ THE MANUAL FOR MAXIMUM PROTECTION. HELMET MUST BE FITTED AND ADJUSTED PROPERLY TO THE WEARER'S HEAD IN ACCORDANCE WITH THE OWNER'S MANUAL FITTING INSTRUCTIONS. DESTROY AND REPLACE THE HELMET AFTER IMPACT - DAMAGE CAN BE INVISIBLE. SOLVENTS MAY DAMAGE THE HELMET INVISIBLY. CLEAN ONLY WITH MILD SOAP AND WATER. THIS HELMET SHOULD NOT BE USED BY CHILDREN WHILE CLIMBING OR DOING OTHER ACTIVITIES WHEN THERE IS A RISK OF STRANGULATION IF THE CHILD GETS TRAPPED WITH THE HELMET. THIS HELMET IS FOR PEDAL CYCLISTS, SKATEBOARDERS OR ROLLER SKATERS. CONTACTED OF EXPANDED POLYSTYRENE. HELMETS CAN BE SERIOUSLY DAMAGED BY SUBSTANCES SUCH AS SOLVENTS, PAINTS, ADHESIVES AND CLEANING SOLUTIONS.

904.06126.002 – LT1701-MTB ENDURO 3.0 Labels

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SUMMARY REPORT

PERIPHERAL VISION TEST

| HELMET ID | Condition | REQUIREMENT | TEST RESULTS |
|-----------|-----------|-------------|--------------|
| 1 | Ambient | > 105° | Pass |

Comment:

1. Test method carried out in accordance with section 1203.14.
2. Test Criteria S1203.12 a): The helmet shall allow unobstructed vision through a minimum of 105 degrees on each side of the mid-sagittal plane.

POSITIONAL STABILITY (ROLL OFF) TEST

| HELMET ID | Condition | Drop Mass (kg) | Drop Height (m) | REQUIREMENT | TEST RESULTS |
|-----------|-----------|----------------|-----------------|-------------|--------------|
| 5 | Ambient | 4.0 | 0.6 | Face Up | Pass |
| | | | | Face Down | Pass |

Comment:

1. Test method carried out in accordance with section 1203.15.
2. Test Criteria S1203.12 b): The helmet shall not come off the test headform.

RETENTION SYSTEM STRENGTH TEST

| HELMET ID | Condition | Drop Mass (kg) | Drop Height (m) | Maximum Elongation (mm) | Residual Elongation (mm) | Pass/Fail |
|-----------|-----------|----------------|-----------------|-------------------------|--------------------------|-----------|
| 1 | Ambient | 4.0 | 0.6 | 17.5 | 10.2 | Pass |
| 2 | Hot | 4.0 | 0.6 | 19.6 | 11.4 | Pass |
| 3 | Cold | 4.0 | 0.6 | 18.5 | 10.5 | Pass |
| 4 | Wet | 4.0 | 0.6 | 16.8 | 10.8 | Pass |

Comment:

1. Test method carried out in accordance with section 1203.16.
2. Test Criteria S1203.12 c): The retention system shall remain intact without elongating more than 30 mm.

IMPACT TEST SUMMARY

| Helmet ID | Condition | Impact Site # | Impact Location | Anvil | Drop Mass (kg) | Drop Height (m) | Velocity (m/sec) | Peak Acc. (g) | Pass/Fail |
|-----------|-----------|---------------|-----------------|-------|----------------|-----------------|------------------|---------------|-----------|
| 1 | Ambient | 1 | LF Front | Hemi | 5.0 | 1.25 | 4.8133 | 112.5 | Pass |
| 1 | Ambient | 2 | RT Side | Hemi | 5.0 | 1.25 | 4.8363 | 98.7 | Pass |
| 1 | Ambient | 3 | LF Side | Flat | 5.0 | 2.05 | 6.1285 | 218.3 | Pass |
| 1 | Ambient | 4 | Rear | Flat | 5.0 | 2.05 | 6.1559 | 184.1 | Pass |
| 2 | Hot | 1 | LF Front | Hemi | 5.0 | 1.25 | 4.8077 | 101.5 | Pass |
| 2 | Hot | 2 | RT Side | Hemi | 5.0 | 1.25 | 4.7765 | 111.5 | Pass |
| 2 | Hot | 3 | LF Side | Flat | 5.0 | 2.05 | 6.1947 | 214.0 | Pass |
| 2 | Hot | 4 | Rear | Flat | 5.0 | 2.05 | 6.1223 | 174.6 | Pass |
| 3 | Cold | 1 | LF Front | Hemi | 5.0 | 1.25 | 4.7903 | 122.9 | Pass |
| 3 | Cold | 2 | RT Side | Hemi | 5.0 | 1.25 | 4.8384 | 105.8 | Pass |
| 3 | Cold | 3 | LF Side | Flat | 5.0 | 2.05 | 6.1251 | 220.7 | Pass |
| 3 | Cold | 4 | Rear | Flat | 5.0 | 2.05 | 6.1129 | 180.3 | Pass |
| 4 | Wet | 1 | LF Front | Hemi | 5.0 | 1.25 | 4.7818 | 100.1 | Pass |
| 4 | Wet | 2 | RT Side | Hemi | 5.0 | 1.25 | 4.8169 | 106.3 | Pass |
| 4 | Wet | 3 | LF Side | Flat | 5.0 | 2.05 | 6.1708 | 226.8 | Pass |
| 4 | Wet | 4 | Rear | Flat | 5.0 | 2.05 | 6.1211 | 170.4 | Pass |
| 5 | Ambient | 1 | Rear | Curb | 5.0 | 1.25 | 4.8423 | 131.0 | Pass |
| 6 | Hot | 1 | Rear | Curb | 5.0 | 1.25 | 4.7876 | 117.7 | Pass |
| 7 | Cold | 1 | Rear | Curb | 5.0 | 1.25 | 4.7888 | 125.7 | Pass |
| 8 | Wet | 1 | Rear | Curb | 5.0 | 1.25 | 4.7877 | 126.2 | Pass |

Comment:

1. Test method carried out in accordance with section 1203.17.
2. Test Criteria S1203.12 d2): The peak acceleration of each impact shall not exceed 300 g.
3. Test Criteria S1203.5: There shall be no fixture on the inner surface of the helmet projecting more than 2 mm into the helmet's interior. Any unfaired projection extending more than 7 mm on the helmets outer surface shall break away or collapse when impacted.

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NOTICE

1. The report is not effective without the signature of the person(s) authorizing the report (ACT Lab's authorized signatory is John A. Bogler (President)).
2. The report is not valid if altered.
3. Claims have to be made within 15 days after receipt of this report.
4. The results of this test report relate only to the items tested.
5. The results apply to the samples as received.
6. For reports that contain results from external test service providers: Results from external test service providers are supplied by the customer and can affect validity of results.
7. Decision rule applied according to "ILAC-G8:03/2009 - Guidelines on the Reporting of Compliance with Specification".

END OF REPORT

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