



INSTITUT GUMÁRENSKÉ TECHNOLOGIE A TESTOVÁNÍ, A.S.
RUBBER TECHNOLOGY AND TESTING INSTITUTE, Plc.
INSTITUT FÜR GUMMITECHNOLOGIE UND PRÜFWESSEN, A.G.
A.O. «ИНСТИТУТ ТЕХНОЛОГИИ РЕЗИНЫ И ИСПЫТАНИЙ»

Společnost je zapsána v obchodním rejstříku vedeném Krajským soudem v Brně, oddíl B, vložka 818



Zlín 24th February 2025

E8*75R00/20*1773*00

Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6
4000 Kranj
SLOVENIA

Communication concerning the approval and notification of approval number and inspection report issued by Inspection body IGTT

Tyre type fully complies requirements of ECE/UN R75.

Enclosed you will find the Communication concerning the approval of your tyres according to ECE/UN Regulation No. 75

On the base of this approval you are entitled to produce in your factory tyres of the dimension:

90/90-21 MITAS ENDURO TRAIL-ADV 2 54V

with the approval number : **E8 75R - 001773**
date of inspection : **24th February 2025**
inspector's name : **Václav Hořelka**

Sincerely yours,



Václav Hořelka
Head Of Tyre Approval Department
Head Of Inspection Body IGTT

**APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE
FOR MOTORCYCLES AND MOPEDS ACCORDING TO ECE REGULATION No. 75**

E8 75R – 001773

4.1.1. Tyre size designation:	90/90-21
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL-ADV 2
4.1.3. The category of use:	SNOW
4.1.4. Structure (diagonal, bias belted, radial):	DIAGONAL
4.1.5. The speed category:	V
4.1.6. The load-capacity index of the tyre:	54
4.1.7. Tube type or Tubeless:	TUBELESS/TUBE TYPE
4.1.8. Normal or Reinforced:	NORMAL
4.1.9. Ply rating number of tyres for motorcycle derivatives:	TREAD: 2 NYLON SIDEWALL: 2 NYLON
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 91 mm Overall diameter: 702 mm
4.1.11. The rims on which the tyre can be mounted:	1.85x21, 2.15x21, 2.50x21
4.1.12. The measuring rim and test rim:	2.15x21
4.1.13. The test and measurement pressure	Test pressure: 350 kPa Measuring pressure: 280 kPa
4.1.14. Factor x	0.6
4.1.15. Max allowed speed for load-capacity defined in 4.1.6.	240 km/h

Manufacturer's name and address:

Tyre Manufacturer (1)

Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

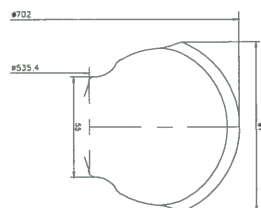
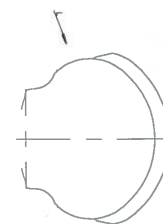
Tyre Manufacturer (2)

Reise Mitas Tires LLP
Plot No. 521, Sayakha Industrial Estate,
Near Village Juned, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140, India

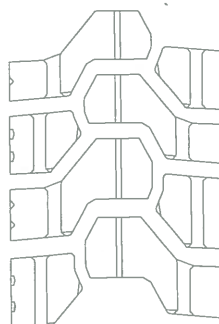
Tyre Manufacturer (3)

Yokohama TWS Czech Republic a.s.
Vavrečkova 7248
760 02 Zlín, Czech Republic



CROSS SECTION OF MOUNTED TIRE



OVERALL (open) MITAS ENDURO TRAIL-ADV 2 PATTERN



IČ/ID: 46900080 DIČ/VAT: CZ46900080

[illegible]

TEST REPORT No. 2025 - 422

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Yokohama TWS Slovenia, d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: Mr. Gubanc
 Requirement No.: BG/25004
 Dept.: Moto Kranj Task: 01D/2025/BG
 Project No.: 70001415
 Application date: 23.01.2025
 Report issue date: 03.02.2025
 Test motive: Proto. tires P-03/25 (ECE homologacija)

2. Tested sample: Tyre
 Sort: M Ident. No.: 60137
 Dimension 90/90-21 Name: Mitas Enduro Trail-ADV 2
 Designation 1. Product: YTWS Slovenia Approval E8 75R 001773
 LI: 54 SS: V IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 4,06 kg Measuring rim 2,15x21 H2 DOT: 1H3 DOP: 0225

3. Test: Sidewall lettering inspection
 Method: KPB-M-003 accredited

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2,15x21 H2 Inflation: kPa
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: See appendix of protocol 2025-422.

Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75 and other standards
 U = 0,5 mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Tyre lettering inspection

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Sample No.: 60137 Size: 90/90-21 Mitas Enduro Trail-ADV Method: KPB-M-003

Date: 31.01.2025

Dimension of approval mark:

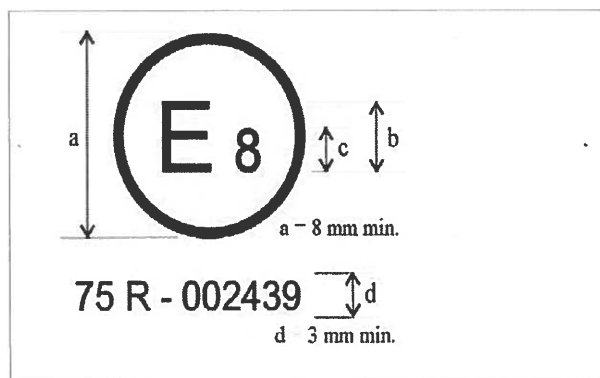
diameter of circle: 11 mm

height of letter E: 6 mm

height of number: 4 mm

height of text 75R....: 4 mm

Sidewall lettering:

b $\geq$ 4 mm (min): 6 mm

b TUBELESS M + S

Measured where (text): M+S

Size designation (text) : Yes

Structure (diagonal/bias belted/radial): -

Trade name (mark): Yes

Speed category (mark): Yes

Load capacity (mark): Yes

Ply rating (mark): No

TUBELESS (text): Yes

REINFORCED or REINF (text): No

M+S or M.S or MaS (mark): Yes

MST (mark): Yes

Date of production (wwyy): Yes

M/C (mark): Yes

MOPED or CYCLOMOTEUR (text): -

(W) for SS>270km/h: No

Running rotation (mark): Yes

Visible defects or damages: No

QC check mark (stamp): No

Manuf.name or country of or Yes

TWI markings: Yes

DP (mark): No

NHS (mark): No

TEST REPORT No. 2025 - 423

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Yokohama TWS Slovenia, d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: Mr. Gubanc
 Test motive: Proto. tires P-03/25 (ECE homologacija)

Requirement No.: BG/25004
 Dept.: Moto Kranj Task: 01D/2025/BG
 Project No.: 70001415
 Application date: 23.01.2025
 Report issue date: 03.02.2025

2. Tested sample: Tyre
 Sort: M Ident. No.: 60137
 Dimension 90/90-21 Name: Mitas Enduro Trail-ADV 2
 Designation 1. Product: YTWS Slovenia Approval E8 75R 001773
 LI: 54 SS: V IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 4,06 kg Measuring rim 2,15x21 H2 DOT: 1H3 DOP: 0225

3. Test: Measurement of tyre dimensions
 Method: MZR-M-003 accredited

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2,15x21 H2 Inflation: 280 kPa
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Overall diameter: 702 mm
 Overall width: 91 mm

Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75
 Udiam = 1,5 mm; Uwidth = 1,0 mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Measurement of the tyre dimensions

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Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Annex to protocol No.:2025 - 423 Measurement of tyre dimensions

Printed: 03.02.2025

Sample No 60137 Tyre size: 90/90-21 Mitas Enduro Tra Method: MZR-M-003

Date of measurement	Tyre		Tyre width at six points on circumference						Overall tyre	
	inflation	cicumf.	1	2	3	4	5	6	width	diameter
	kPa	mm	mm	mm	mm	mm	mm	mm	mm	mm
01.02.2025	280	2 204	90,5	91	90,8	90,6	90,9	91	91,0	702

TEST REPORT No. 2025 - 424

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Yokohama TWS Slovenia, d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: Mr. Gubanc
 Test motive: Proto. tires P-03/25 (ECE homologacija)

Requirement No.: BG/25004
 Dept.: Moto Kranj Task: 01D/2025/BG
 Project No.: 70001415
 Application date: 23.01.2025
 Report issue date: 04.02.2025

2. Tested sample: Tyre
 Sort: M Ident. No.: 60137
 Dimension 90/90-21 Name: Mitas Enduro Trail-ADV 2
 Designation 1. Product: YTWS Slovenia Approval E8 75R 001773
 LI: 54 SS: V IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 4,06 kg Measuring rim 2,15x21 H2 DOT: 1H3 DOP: 0225

3. Test: Speed test
 Method: RZ-M-003 accredited

4. Test condition: Testing machine: H2L Drum: 2000 mm Ambient temperature: 38±3°C
 Testing rim: 2,15x21 H2 Inflation: 350 kPa capped
 Load: 115 daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Without failure.
 Difference of tyre circumference at start and at end of test: 0,5 %
 Undergo cycles: 83 972 Undergo track: 185 km

6. Evaluation: Criterion no defects and circumf.difference before and 6h after test max. ±3,5%
 Uinfl = 5 kPa; Utime +1 s; Uspeed = 2 km/h;
 Uload = 5% (40 - 500 daN), 1% (501 - 30000 daN)
 U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Drum tyre test record

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Sample No.: 60137		Dimension:		90/90-21		Mitas Enduro Trail-			Test:		RZ-M-003		
ID No.	Test stage	Date time dd.mm.yyyy hh:mm:ss	Step duration hhh:mm:ss	Test duration hhh:mm:ss	Speed km/h	Load daN	Inflation kPa	Radius mm	Surface °C	Room °C	Distance km	Cycles	Diameter/ deflection mm
1	Start	01.02.2025 14:53:31	000:00:00	000:00:00			350			37,5			704
2	Cont	01.02.2025 15:14:04	000:20:00	000:20:00	105,1	116		345		37,6	35	16 141	7
3	Cont	01.02.2025 15:24:07	000:10:00	000:30:00	210,0	116		348		37,9	70	32 033	4
4	Cont	01.02.2025 15:34:09	000:10:00	000:40:00	220,0	116		348		38,0	107	48 600	4
5	Cont	01.02.2025 15:44:11	000:10:00	000:50:00	230,0	116		349		38,1	145	65 914	3
6	Cont	01.02.2025 15:54:13	000:10:00	001:00:00	240,0	116		349		38,2	185	83 972	3
7	Int:M	01.02.2025 15:58:27	000:04:14	001:00:00						38,0			
8	Int:O	02.02.2025 6:23:15	014:24:49	001:00:00			323			38,0			707
9	End	02.02.2025 6:23:18	000:00:03	001:00:00						38,0			

Tyre width immediately after end of test(mm): 93,1 - 93,6 - 92,4 - 92,6 - 92,9 - 92,8

Change of tyre circumference before test and 6h after test (%): 0,45



TEST REPORT No. 2025 - 425

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Yokohama TWS Slovenia, d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: Mr. Gubanc
 Test motive: Proto. tires P-03/25 (ECE homologacija)

Requirement No.: BG/25004
 Dept.: Moto Kranj Task: 01D/2025/BG
 Project No.: 70001415
 Application date: 23.01.2025
 Report issue date: 05.02.2025

2. Tested sample: Tyre
 Sort: M Ident. No.: 60137
 Dimension 90/90-21 Name: Mitas Enduro Trail-ADV 2
 Designation 1. Product: YTWS Slovenia Approval E8 75R 001773
 LI: 54 SS: V IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 4,06 kg Measuring rim 2,15x21 H2 DOT: 1H3 DOP: 0225

3. Test: Dynamic growth test
 Method: MDN-M-003 accredited

4. Test condition: Testing machine: DN Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2,15x21 H2 Inflation: 290 kPa capped
 Load: daN Drum speed: 240 km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Max. centrifugal radius of tyre at max. speed: 357,2 mm
 Overall width of tyre at max. speed: 86,7 mm

Undergo cycles: Undergo track: km

6. Evaluation: Criterion profil doesn't exceed limit curve
 Uinfl = 5 kPa; Utime +1 s; Uspeed = 2 km/h; Udist=0,7mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Tyre profile record : S1-Test limit, S2-10 km/h, S3-240 km/h

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Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Sample No.: 60137

Dimension:

90/90-21

Mitas Enduro Trail-

Test:

MDN-M-003

tyre
radius
mm

Measurement of tyre profile

— S1 — S2
— S3 — S4