

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



Zlín 17<sup>th</sup> February 2025

E8\*75R00/20\*1521\*01

**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.

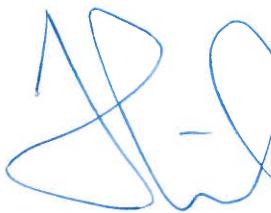
Enclosed you will find the Communication concerning the approval of your tyres according to ECE/UN Regulation No. 75

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

**90/90-21 MITAS ENDURO TRAIL+ E-07+ 54H**

with the approval number : **E8 75R - 001521**  
date of inspection : **17<sup>th</sup> February 2025**  
inspector's name : **Václav Hořelka**

Sincerely yours,



**IGTT a.s.**  
Tyre Approval Department  
Šternberská 446, Louky  
763 02 Zlín, Czech Republic  
IČ/ID: 46900080 DIČ/VAT: CZ46900080

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

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

**E8 75R – 001521**

**Reason: change of construction**

|   |   |
|---|---|
| 4.1.1. Tyre size designation:                                 | 90/90-21  |
| 4.1.2. Manufacturers name, tyre name:                         | MITAS, ENDURO TRAIL+<br>E-07+                         |
| 4.1.3. The category of use:                                   | SNOW  |
| 4.1.4. Structure (diagonal, bias belted, radial):             | DIAGONAL  |
| 4.1.5. The speed category:                                    | H   |
| 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 POLYESTER<br>SIDEWALL: 2 POLYESTER           |
| The overall dimensions  |   |
| 4.1.10. overall section width:                                | Overall section width: 89,82 mm                       |
| overall diameter:   | Overall diameter: 697,1 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:                       | 1.85x21   |
| 4.1.13. The test and measurement pressure                     | Test pressure: 350 kPa<br>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. | 210 km/h  |

**Manufacturer's name and address:**

**Tyre Manufacturer (1)**

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

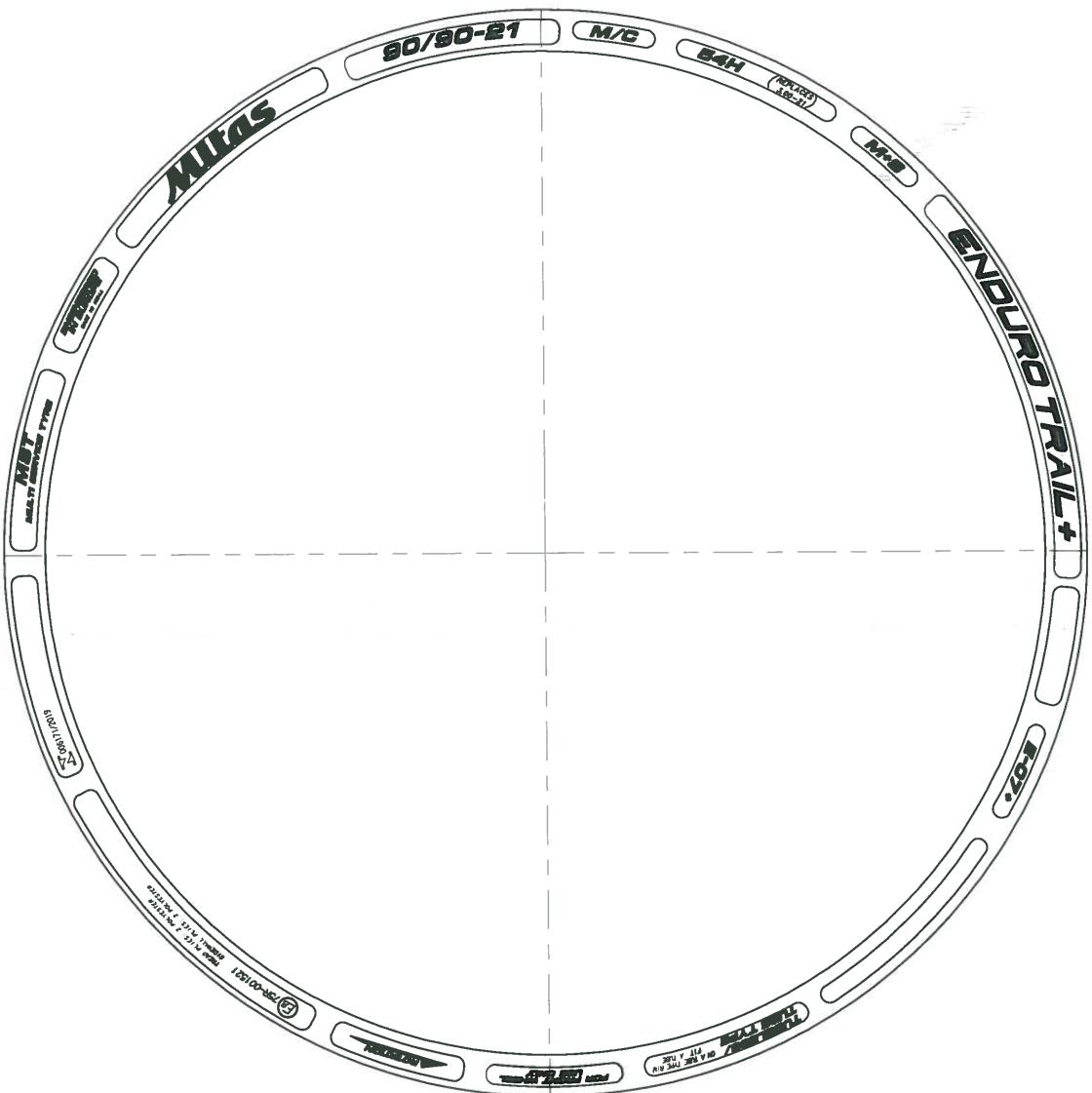
**Tyre Manufacturer (2)**

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

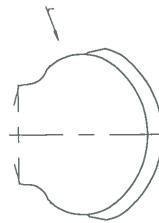
**Tyre Manufacturer (3)**

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

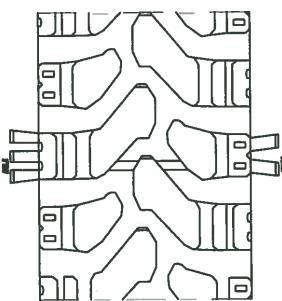




DISPOSITION ON TYRE - TOP HALF OF THE MOUNTAIN (NEW L)

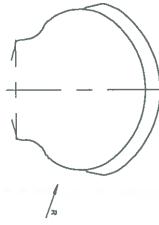
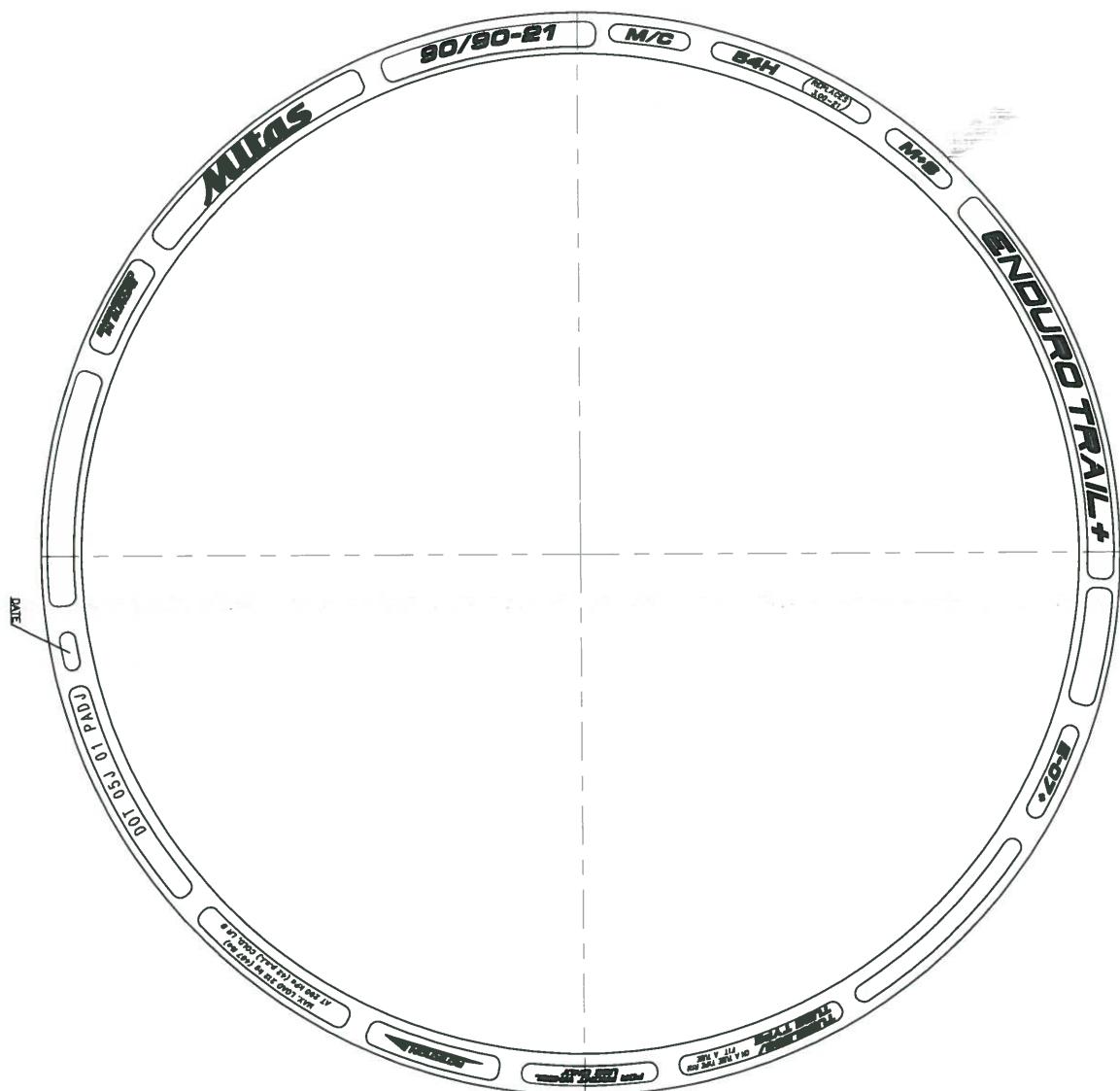


CROSS SECTION OF MOUNTED LINE



OVERALL (open) MTAS ENDURO TRAIL+ E-07+ PATTERN





DISPOSITION ON TYRE - BOTTOM HALF OF THE MOULD  
(NEW R)

**IGT** a.s.  
Tyre Approval Department  
Šternberská 446, Louky  
763 02 Zlín, Czech Republic  
IČ/ID: 46900060 DIČ/VAT: CZ46900080

|                  |   |             |                |
|------------------|---|-------------|----------------|
| RMTL             | REISE MITAS Tires LLP   | Format No.  | RMTL/QR/7.8/01 |
|                  | (Testing Laboratory )   | Issue No.   | 01             |
|                  | Plot No. 521. Saykha Industrial Estate , Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (I) -392140 | Issue Date  | 05-01-2023     |
| DOCUMENT NO      |   | Amend. No.  | 01             |
| RMTL /QR/01/2023 |   | Amend. Date | 10.07.2024     |

## TEST REPORT

### GENERAL DETAILS

|  |   |
|--|---|
| Test Report No.  | RMTL/RN/2025/RM25-085   |
| Group:   | Rubber & Rubber Product   |
| Discipline :   | Mechanical  |
| Date of Issue  | 11-02-2025  |
| Name of customer   | Monika Macháčová  |
| Address of customer  | Research, Development & Quality Director,<br>Mitas Motocycle Tires, Kranj, Slovenija                      |
| Contact details of customer Email ID                                 | Monika.Machacova@mitas-tires.com  |
| Customer Letter Ref No. / Email with date                            | MM25022   |
| Date of Receipt of sample  | 08-02-2025  |
| Other information like witness/ Third party /customer identification | 70001500 (ECE Homologation)   |
| Date of test performed on  | 08-02-2025 to 10-02-2025  |
| sample Description   | TWO WHEELER TYRE  |
| Sample Description   | 90/90-21 M/C 54H Mitas ENDURO TRAIL+ E-07+ TL/TT M+S  |
| Condition of sample  | LOOSE   |
| Quality of sample received   | GOOD  |
| No of tyre received  | 2   |
| Test sample manufactured by  | REISE MITAS Tires LLP   |
| Location of the manufacturing plant                                  | 521, Saykha Industrial Estate, Near Village Juned, Taluka Vagra, Dist-Bharuch. Gujarat. Pin -392140 INDIA |

VRD  
11/2/2025

**PRAKASH D RAO V**  
**TECHNICAL MANAGER**

Reviewed By

MECHANICAL LABORATORY

*Sudip Jana*  
11/2  
**SUDIP JANA**  
**QUALITY MANAGER**

Authorized Signatory

### Disclaimer:

1. Samples drawn and submitted by customer
2. The results reported only pertain to the sample submitted by the customer
3. This report shall not be reproduced except in full , without written approval of the laboratory
4. Samples tested as per standards mentions by the laboratory
5. Statement of Conformity is as per applicable test methods used

1 OF 5

|                  |  |             |                |
|------------------|--|-------------|----------------|
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| DOCUMENT NO      |  | Amend. No.  | 01             |
| RMTL /QR/01/2023 |  | Amend. Date | 10.07.2024     |

|                  |                       |
|------------------|-----------------------|
| Test Report No : | RMRL/RN/2025/RM25-085 |
| Date of Issue:   | 11-02-2025            |

|               |  |
|---------------|--|
| 1             | Details of tyres, Submitted/declared by the supplier |
| Test standard | ECE R-75 (Cl.4)                                      |

|      |   |                                  |
|------|---|----------------------------------|
| 1.1  | Tyre size designation   | 90/90-21 M/C                     |
| 1.2  | Tyre Trade name and mark  | Mitas ENDURO TRAIL+ E-07+        |
| 1.3  | The category of use (normal, special, snow or moped)  | Snow                             |
| 1.4  | Structure: diagonal (bias ply), bias belted or radial   | Bias                             |
| 1.5  | Speed category  | H/210                            |
| 1.6  | Load capacity Index of the tyre/Maximum load carrying capacity (kg)   | 54/212                           |
| 1.7  | Whether the tyre is to be used with or without an inner tube  | TUBETYPE/TUBELESS                |
| 1.8  | Whether the tyre is "normal" or "reinforced"  | Normal                           |
| 1.9  | The ply-rating number of tyres for motor cycle derivatives  | Not applicable                   |
| 1.10 | Overall width (mm)  | 87-99                            |
| 1.11 | Overall diameter (mm)   | 691-715                          |
| 1.12 | Rim on which tyres can be mounted   | MT1.85X21",MT2.15X21",MT2.50X21" |
| 1.13 | Measuring rim and test rim,   | MT2.15X21",MT1.85X21"            |
| 1.14 | a.Inflation pressure corresponding to maximum load carrying capacity (kPa)  | 290                              |
|      | b.Test and measurement pressure (kPa)   | 350,290 and 280                  |
| 1.15 | The factor X referred to in paragraph 2.19  | 0.60                             |
| 1.16 | For tyres identified by means of letter code "V" within the size designation and suitable for speeds over 240 km/h or for tyres identified by means of letter code "Z" within the size designation and suitable for speeds over 270 km/h, the maximum speed permitted by the tyre manufacturer and the load carrying capacity allowed for that maximum speed. | NA                               |

VRD  
11/2/2025

PRAKASH D RAUV  
TECHNICAL MANAGER

Reviewed By

*Sudip Jana*  
11/2

SUDIP JANA  
QUALITY MANAGER

REISE MITAS Tires LLP

(Testing Laboratory)

Plot No. 521. Sayka Industrial Estate, Near Village Juned, Taluka Vagra Dist. Bharuch  
Gujarat (I) -392140

RMTL

DOCUMENT NO

RMTL /QR/01/2023

## TEST REPORT

ULR No. : TC1409325000000012F

Test Report No : RMTL/RN/2025/RM25-085

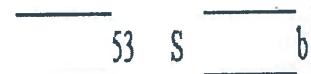
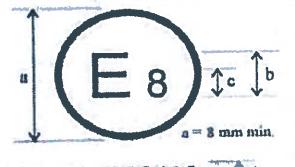
Date of Issue: 11-02-2025

2 Marking

Test standard ECE R-75 (Cl. No-3)

Sample ID : RM25-085-01

| S.No | Specific tests performed                | Unit of measurement | Min Req.        | Observed value           | Remark |
|------|---|---------------------|-----------------|--------------------------|--------|
| 2.1  | Diameter of circle                      | mm                  | 8               | 11.5                     | -      |
| 2.2  | Height of letter E                      | mm                  | 4               | 5.8                      | -      |
| 2.3  | Height of number                        | mm                  | 3               | 3.8                      | -      |
| 2.4  | Height of text 75R....                  | mm                  | 3               | 3.7                      | -      |
| 2.5  | Size designation                        | mm                  | 4               | 8.2                      | -      |
| 2.6  | Structure (diagonal/bias belted/radial) | Visual              | Shall be marked | "_"                      | -      |
| 2.7  | Trade name                              | Visual              | Shall be marked | Mitas ENDURO TRAIL+E-07+ | -      |
| 2.8  | Speed category                          | mm                  | 4               | 6.1                      | -      |
| 2.9  | Load capacity                           | mm                  | 4               | 6                        | -      |
| 2.10 | Ply rating                              | Visual              | Shall be marked | -                        | -      |
| 2.11 | TUBELESS/TUBETYPE                       | mm                  | 4               | 4.2                      | -      |
| 2.12 | REINFORCED or REINF                     | Visual              | Shall be marked | -                        | -      |
| 2.13 | M+S or M.S or MaS                       | Visual              | Shall be marked | M+S/5.7                  | -      |
| 2.14 | MST                                     | Visual              | Shall be marked | Available                | -      |
| 2.15 | Date of production (wwyy)               | mm                  | 4               | 5.4                      | -      |
| 2.16 | M/C                                     | Visual              | Shall be marked | 6.5                      | -      |
| 2.17 | MOPED or CYCLOMOTEUR                    | Visual              | Shall be marked | -                        | -      |
| 2.18 | (W) for SS>270km/h                      | Visual              | Shall be marked | -                        | -      |
| 2.19 | Running rotation                        | Visual              | Shall be marked | Available                | -      |
| 2.20 | Visible defects or damages              | Visual              | Shall be marked | No                       | -      |
| 2.21 | QC check mark                           | Visual              | Shall be marked | Not Available            | -      |
| 2.22 | Manuf.name or country                   | Visual              | Shall be marked | MADE IN INDIA            | -      |
| 2.23 | TWI markings                            | Nos.                | Shall be marked | Available(4 nos)         | -      |
| 2.24 | DP                                      | Visual              | Shall be marked | -                        | -      |
| 2.25 | NHS                                     | Visual              | Shall be marked | -                        | -      |



b = 4 mm min.

VPD  
11/2/2025  
PRAKASH D RAO V  
TECHNICAL MANAGER

Reviewed By

3 OF 5

  
SUDIP JANA  
QUALITY MANAGER

Authorized Signatory

## REISE MITAS Tires LLP

(Testing Laboratory)

Plot No. 521. Saykha Industrial Estate, Near Village Juned, Taluka Vagra Dist. Bharuch  
Gujarat (I) -392140

TC-14093

## TEST REPORT

DOCUMENT NO  
RMTL /QR/01/2023

ULR No. : TC1409325000000012F

Test Report No : RMTL/RN/2025/RM25-085

Date of Issue: 11-02-2025

3 Tyre Dimensions

Sample ID : RM25-085-01

Test standard ECE R-75 (CI No-6)

| S.No | Specific tests performed      | Unit of measurement | Standard Specification requirement | Observed Values | Remark          |
|------|-------------------------------|---------------------|------------------------------------|-----------------|-----------------|
| 3.1  | Rim Size                      | Inch                | MT2.15X21"                         | MT1.85X21"      | Alternative rim |
| 3.2  | Infaltion pressure            | kPa                 | 280                                | 280             | -               |
| 3.3  | Conditioning temperature      | Degree              | 20-30                              | 28.6            | -               |
| 3.4  | Conditioning Duration         | hr                  | 24                                 | 24              | -               |
| 3.5  | Maximum overall width of tyre | mm                  | 87-99                              | 89.82           | +3mm Adjusted   |
| 3.6  | Overall diameter              | mm                  | 691-715                            | 697.1           | -               |

U.pressure:-±0.38%,U.OD:-±0.31%,U.Width:-±0.13%

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%

4 Load / speed performance test

Test standard ECE R-75(CI. No-6.2)

Sample ID : RM25-085-02

## Test condition:

Smooth wheel diameter(m) : 1.7

Condition duration(hr) : Min 3

Condition temperature (°C): 20-30

Test room temperature(°C) : 20-30

Test Inflation pressure(kPa) :350

Test load (kg) : 138

Test Rim : MT1.85X21" (Alt)

| Step | Speed (km/hr) | Durations (minutes) | Room temp. (°C) |  | After undergoing the test , a tyre shall not exhibit any tread, ply cord separation , chunking or broken cord | No tread separation, ply cord separation , chunking or broken cords observed |  |
|------|---------------|---------------------|-----------------|--|---|--|--|
| 1    | 0-170         | 0-20                | 29              |  |   |  |  |
| 2    | 170           | 10                  | 28              |  |   |  |  |
| 3    | 180           | 10                  | 28              |  |   |  |  |
| 4    | 190           | 10                  | 27              |  |   |  |  |
| 5    | 200           | 10                  | 26              |  |   |  |  |

|     |  |    |          |        |   |
|-----|--|----|----------|--------|---|
| 4.2 | Initial Diameter<br>Final Diameter when measured at least six hours after test<br>% Change in outer diameter of tyre, Measured after 6 hours | mm | 691-715  | 697.41 | - |
|     |  |    | 691-715  | 703.46 | - |
|     |  | %  | Max ±3.5 | 0.9    | - |

|     |   |    |       |       |                |
|-----|---|----|-------|-------|----------------|
| 4.3 | Initial overall width<br>Overall width at the end of test | mm | 87-99 | 90.28 | +3 mm adjusted |
|     |   |    | 87-99 | 91.48 | +3 mm adjusted |

U.pressure:-±0.38%,U.OD:-±0.31%,U.Width:-±0.13%

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%

PRAKASH D RAO  
TECHNICAL MANAGER

Reviewed By

SUDIP JANA  
QUALITY MANAGER

| RMTL   | REISE MITAS Tires LLP  |  |                                    |   |                                  |               |
|--|--|--|------------------------------------|---|----------------------------------|---------------|
|  | (Testing Laboratory )  |  |                                    |   |                                  |               |
|  | Plot No. 521. Saykha Industrial Estate , Near Village Juned, Taluka Vagra Dist.<br>Bharuch Gujarat (I) -392140                       |  |                                    |   |                                  |               |
| DOCUMENT NO  | TEST REPORT  |  |                                    |   |                                  |               |
| RMTL /QR/01/2023   |  |  |                                    | TC-14093  |                                  |               |
| ULR No. :  | TC1409325000000012F  |  |                                    |   |                                  |               |
| Test Report No :   | RMTL/RN/2025/RM25-085  |  |                                    |   |                                  |               |
| Date of Issue:   | 11-02-2025   |  |                                    |   |                                  |               |
| 6  | Dynamic Growth of the tyre:  |  |                                    |   |                                  |               |
| Test standard  | ECE R-75 (Cl No:-6.3)  |  |                                    |   |                                  |               |
| Sample ID :  | RM25-085-02  |  |                                    |   |                                  |               |
| S.No   | Specific tests performed   | Unit of measurement  | Standard Specification requirement | Observed Values   | Remark                           |               |
| 6.1  | Test condition:  |  |                                    |   |                                  |               |
|  | Test inflation pressure : 290 kPa  |  |                                    |   |                                  |               |
|  | Speed category symbol - H  |  |                                    |   |                                  |               |
|  | Maximum Speed - 210 kmph   |  |                                    |   |                                  |               |
|  | Rim Diameter(D) -21 inch   |  |                                    |   |                                  |               |
|  | <u>Calculation of Overall width :-</u>   |  |                                    |   |                                  |               |
|  | $S = S1 + K(A-A1)$   | Width of measuring Rim(A) -2.15 inch = $2.15 \times 25.4$ mm = 54.61mm |                                    |   |                                  |               |
|  | Nominal Section Width(S1)-90 mm  | K=0.4  |                                    |   |                                  |               |
|  | Factor X = 0.60  |  |                                    |   |                                  |               |
|  | $A1=S1 \times \text{Factor X} = 90 \times 0.60 = 54$ mm  |  |                                    |   |                                  |               |
| $S=90+0.4 ( 54.61 - 54 ) = 90.244$ mm  |  |  |                                    |   |                                  |               |
| <u>Tyre section-width specifications-</u>  |  |  |                                    |   |                                  |               |
| 1. For normal and snow service:  |  |  |                                    |   |                                  |               |
| (a) rim diameter code 13 and above: +10 per cent   |  |  |                                    |   |                                  |               |
| (b) rim diameter codes up to 12 inclusive: +8 per cent   |  |  |                                    |   |                                  |               |
| 2. For special service tyres which are suitable for limited road use and are marked MST: 25 per cent.  |  |  |                                    |   |                                  |               |
| $S_{min}=S - ( S * 4\% ) = 90.244 - ( 90.244 * 0.04 ) = 86.63$ (Nearest to 87 mm)  |  |  |                                    |   |                                  |               |
| $S_{max}=S + ( S * 10\% ) = 90.244 + ( 90.244 * 0.10 ) = 99.268$ (Nearest to 99 mm)  |  |  |                                    |   |                                  |               |
| Overall width Specification - 87 to 99 mm  |  |  |                                    |   |                                  |               |
| <u>Calculation of centrifugal Radius :-</u>  |  |  |                                    |   |                                  |               |
| Nominal sectional height (H) =Nominal sectional width*Aspect ratio =>90*90% => 81 mm   |  |  |                                    |   |                                  |               |
| $H_{dyn} = H * 1.18 = 81 * 1.18 = 95.58$ mm  |  |  |                                    |   |                                  |               |
| Centrifugal radius = $H_{dyn} + D / 2 = 95.58 + ( 21 * 25.4 ) / 2 = 362.28$ mm   |  |  |                                    |   |                                  |               |
| Step   | Speed (km/hr)  | Durations (min)  | mm                                 | Maximum Centrifugal radius  | Centrifugal radius at Test Speed |               |
| 1  | 0-210  | 5  |                                    | 362.28  | 356.7                            |               |
| 2  | 210  | 5  |                                    |   |                                  |               |
| 6.2  | Maximum overall width (SG) at test speed   |  | mm                                 | 87-99   | 82.8                             | +3mm adjusted |
| U.speed:- $\pm 0.32\%$ , U.pressure:- $\pm 0.38\%$ , U.OD:- $\pm 0.31\%$ , U.Width:- $\pm 0.13\%$  |  |  |                                    |   |                                  |               |
| 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% |  |  |                                    |   |                                  |               |
| Conclusion   | The above subject, size:-90/90-21 M/C 54H Mitas ENDURO TRAIL+ E-07+ TL/TT M+S tests carried out as per ECE R75.                      |  |                                    |   |                                  |               |
| <br><b>PRAKASH D RAO V</b><br><b>TECHNICAL MANAGER</b>                        |  |  |                                    |   |                                  |               |
| Reviewed By  | <br><b>SUDIP JANA</b><br><b>QUALITY MANAGER</b> |  |                                    |   |                                  |               |
| 5 OF 5   |  |  | Authorized Signatory               |   |                                  |               |