



INSTITUT GUMÁRENSKÉ TECHNOLOGIE A TESTOVÁNÍ, A.S.
RUBBER TECHNOLOGY AND TESTING INSTITUTE, Plc.
INSTITUT FÜR GUMMITECHNOLOGIE UND PRÜFWESEN, 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 17th 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 : **17th 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



21

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+ 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 SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 89,82 mm 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 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.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

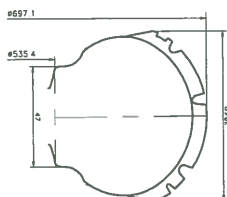
Tyre Manufacturer (2)

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

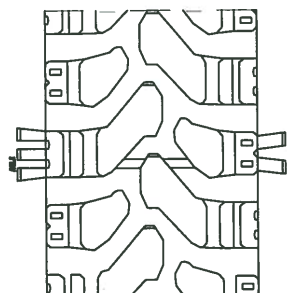
Tyre Manufacturer (3)

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





CROSS SECTION OF MOUNTED TIRE



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

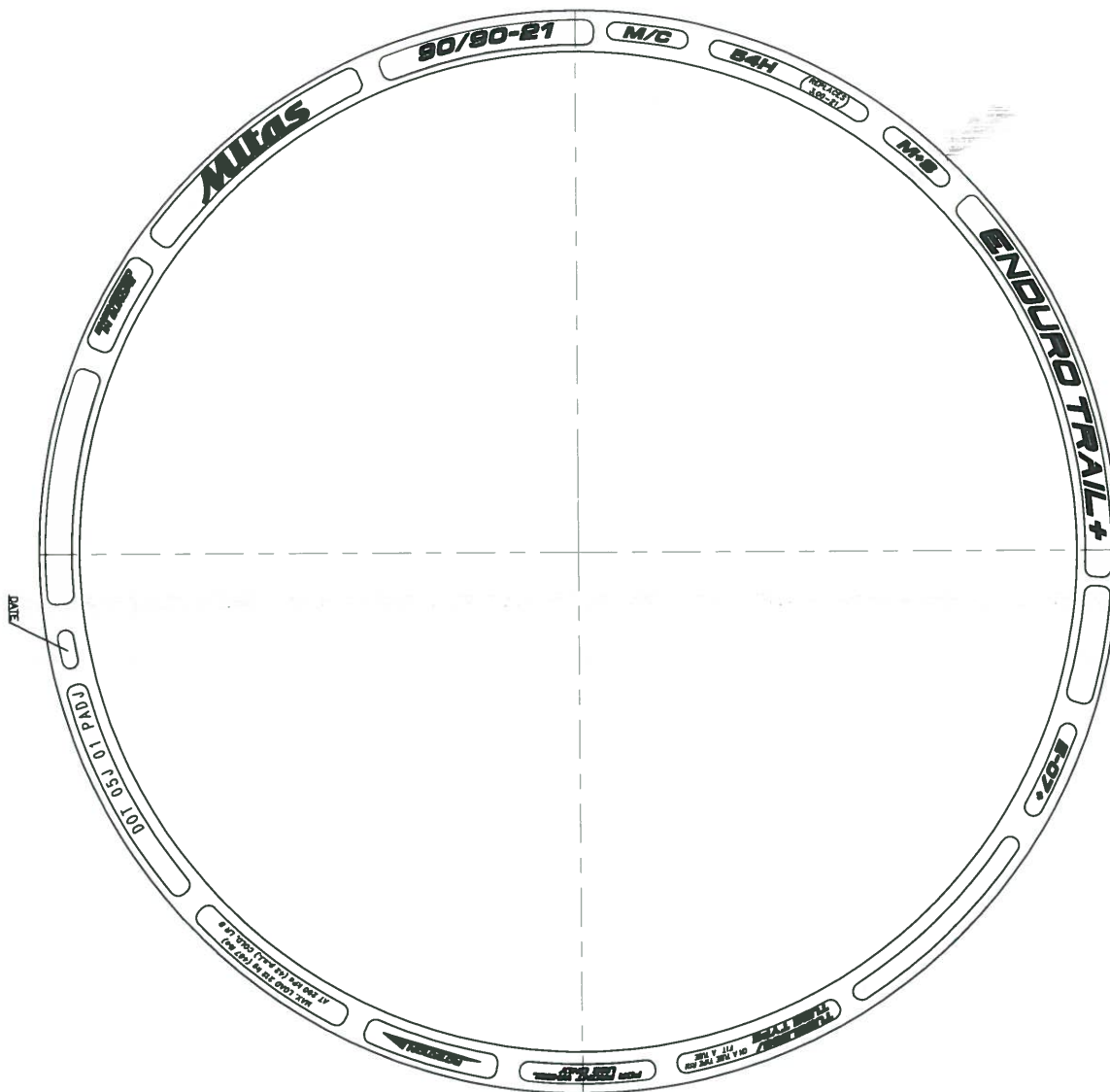
90-96-31-344 L-711 G-0088 TRAIL-C-077 APR. 1996 ECU 875 EXHIBITION	
90-96-31-344 L-711 G-0088 TRAIL-C-077 APR. 1996 ECU 875 EXHIBITION	

IGTT a.s.

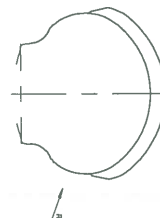
Tyre Approval Department
Sternberská 446, Louky
763 02 Zlín, Czech Republic

IC/ID: 46900080 DIČ/VAT: CZ46900080

IGT



DISPOSITION ON TYRE - BOTTOM HALF OF THE WHEEL
(VIEW B)







MILAS	
Model	90/90-21
Size	84H
Speed	100
Load	100
Pressure	100
Temp	100
Altitude	100
Humidity	100
Wind	100
Other	100
Signature	
Date	

Handwritten signature in blue ink.

IGTT a.s.
 Tyre Approval Department
 Šternberská 446, Louky
 763 02 Zlín, Czech Republic
 IČ/ID: 46900080 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
Amend. No.		01	
Amend. Date		10.07.2024	
DOCUMENT NO			
RMTL /QR/01/2023			
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, Mitas Motorcycle 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		
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  PRAKASH D RAO V TECHNICAL MANAGER </div> <div style="text-align: center;">  SUDIP JANA QUALITY MANAGER </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div>Reviewed By</div> <div>Authorized Signatory</div> </div> <div style="text-align: center; margin-top: 10px;">MECHANICAL LABORATORY</div>			
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 Conformsity is as per applicable test methods used			
1 OF 5			

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
			Amend. No.	01
DOCUMENT NO			Amend. Date	10.07.2024
RMTL /QR/01/2023				
Test Report No :		RMTL/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	
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  PRAKASH D RAO V TECHNICAL MANAGER </div> <div style="text-align: center;">  SUDIP JANA QUALITY MANAGER </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>Reviewed By</div> <div>2 OF 5</div> <div>Authorized Signatory</div> </div>				

RMTL	REISE MITAS Tires LLP					
	(Testing Laboratory)					
	Plot No. 521. Saykha Industrial Estate , Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (I) -392140					
DOCUMENT NO	TEST REPORT					
RMTL /QR/01/2023						
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	<p style="text-align: center;">75 R - 002439</p> <p style="text-align: center;">↓</p> <p style="text-align: center;">100/80 B 18</p> <p style="text-align: center;">↑</p> <p style="text-align: center;">53 S b</p> <p style="text-align: center;">b TUBELESS M + Sb</p> <p style="text-align: center;">b → 2503 b</p> <p style="text-align: center;">b = 4 mm min.</p>
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	-	-	

PRAKASH D RAO V
TECHNICAL MANAGE.





SUDIP JANA
QUALITY MANAGER

Reviewed By

3 OF 5

Authorized Signatory

RMTL	REISE MITAS Tires LLP				
	(Testing Laboratory)				
	Plot No. 521. Saykha Industrial Estate, Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (I) -392140				
DOCUMENT NO	TEST REPORT				
RMTL /QR/01/2023					
ULR No. : TC1409325000000012F Test Report No : RMTL/RN/2025/RM25-085 Date of Issue: 11-02-2025 <div style="display: flex; justify-content: space-between;"> 3 Tyre Dimensions </div> 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: $\pm 0.38\%$, 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%					
4 Load / speed performance test Test standard : ECE R-75(CI. No-6.2) Sample ID : RM25-085-02					
4.1	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	mm	691-715	697.41	-
	Final Diameter when measured at least six hours after test		691-715	703.46	-
	% Change in outer diameter of tyre, Measured after 6 hours		%	Max ± 3.5	0.9
4.3	Initial overall width	mm	87-99	90.28	+3 mm adjusted
	Overall width at the end of test		87-99	91.48	+3 mm adjusted
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%					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"> PRAKASH D RAO TECHNICAL MANAGER </p> <p>Reviewed By</p> </div> <div style="width: 45%; text-align: right;"> <p style="text-align: center;"> SUDIP JANA QUALITY MANAGER </p> <p>Authorized Signatory</p> </div> </div>					

RMTL	REISE MITAS Tires LLP					 	
	(Testing Laboratory)						
	Plot No. 521. Saykha Industrial Estate, Near Village Juned, Taluka Vagra Dist. Bharuch Gujarat (I) -392140						
DOCUMENT NO	TEST REPORT						
RMTL /QR/01/2023							
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 (CI 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)						
	Nominal Section Width(S1)-90 mm Width of measuring Rim(A) -2.15 inch =2.15*25.4 mm = 54.61mm						
	Factor X = 0.60 K=0.4						
	A1=S1*Factor X=90*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.							
Smin=S - (S * 4%) = 90.244 - (90.244*0.04) = 86.63 (Nearest to 87 mm)							
Smax=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							
Hdyn = H*1.18 =>81*1.18 => 95.58 mm							
Centrifugal radius = Hdyn + 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:- ±0.32%, 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%							
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.						
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Reviewed By		5 OF 5		Authorized Signatory			