

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### *Perficio Testing and Research Centre*

*Plot A-2, Kamdhenu Industrial Estate, Near Water Tank Gorwa,  
Vadodara- 390003, Gujarat, India*

*has been assessed and accredited in accordance with the Standard  
ISO/IEC 17025:2017*

*“General Requirements for the Competence of Testing and Calibration Laboratories”  
In the field of  
Testing*

*This certificate remains valid for the Scope of Accreditation as specified  
in the annexure subject to continued compliance to the above standard &  
any other requirements specified by QAI.*



**QAI/CIA/TL/2023/0008**

(Date of First Accreditation: 12 April 2023 - 11 April 2025)

*Valid from: 12 April 2025*

*Valid until: 11 April 2027*

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA



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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Automotive Components		
(A)	Glass Testing (Automotive Components/Safety Glass/Architectural Glass)		
1.	Automotive components / safety glass/ glass for architectural and building uses	General requirements	IS 2553 Part -1: 2018 Cl. no. 5.1.1, 5.1.2., up to amendment No-2
2.		Thickness Test (for toughened glass)	IS 2553 Part -1: 2018 Cl. no. 5.2.1, up to amendment no-2
3.		Thickness Test (for laminated glass)	IS 2553 Part -1: 2018 Cl. no. 5.3.1, up to amendment no-2
4.		Dimension and squareness check (for toughened glass)	IS 2553 Part -1: 2018 Cl. no. 5.2.2, up to amendment no-2
5.		Dimension and squareness check (for laminated glass)	IS 2553 Part -1: 2018 Cl. no. 5.3.2, up to amendment no-2
6.		Fragmentation Test	IS 2553 Part -1: 2018 Cl. no.5.2.3, up to amendment no-2
7.		Human impact Test (for toughened glass)	IS 2553 Part -1: 2018 Cl. no.5.2.5.2, up to amendment no-2
8.		Human impact Test (for laminated glass)	IS 2553 Part -1: 2018 Cl. no.5.3.8, up to amendment no-2
9.		Flatness Test (for overall bow ( $\geq 4$ mm thick))	IS 2553 Part -1: 2018 Cl. no.5.2.4, up to amendment no-2
10.		Flatness Test (roller wave distortion)	IS 2553 Part -1: 2018 Cl. no.5.2.4, up to amendment no-2

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Automotive Components		
11.		Flatness Test (edge lift)	IS 2553 Part -1: 2018 Cl. no.5.2.4, up to amendment no-2
12.		Flatness Test (for local distortion)	IS 2553 Part -1: 2018 Cl. no.5.2.4, up to amendment no-2
13.		Flatness test (other distortion)	IS 2553 Part -1: 2018 Cl. no.5.2.4, up to amendment no-2
14.		Resistance to shock test	IS 2553 Part -1: 2018 Cl. no.5.2.5.1, up to amendment no-2
15.		Fracture and adhesion test-method-I	IS 2553 Part-1:2018 Cl no. 5.3.5, up to amendment no-2
16.		Resistance to temperature (Boil and Bake test)	IS 2553 Part-1:2018 Cl no. 5.3.4, up to amendment no-2
17.		Defects in central area	IS 2553 Part-1:2018 Cl no. 5.3.6, up to amendment no-2
18.		Resistance to humidity (humidity test) - optional	IS 2553 Part-1:2018 Cl no. 5.3.7, up to amendment no-2
19.		Fabrication in glass after toughening	IS 2553 Part-1:2018 Cl no.5.2.8, up to amendment no-2
20.		Edge working in glass for toughening	IS 2553 Part-1:2018 Cl no. 5.2.9, up to amendment no-2
21.		Working on glass after lamination	IS 2553 Part-1:2018 Cl no.5.3.9, up to amendment no-2
22.		Light stability test	IS 2553 Part-1:2018 Cl no. 5.3.3, up to amendment no-2



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Automotive Components		
(B)	Glass Testing (Automotive Components/Safety Glass/Automotive Use)		
23.	Safety glass for windscreen, laminated panes and uniformly toughened panes for side window/Sun-roof/moon-roof application	General requirements (Marking)	IS 2553 Part -2: 2019 Cl.no. 4.1, up to amendment no-5
24.	Laminated safety glass for windscreen and laminated panes for side window/sun-roof/moon-roof application	Light transmittance test	IS 2553 Part -2: 2019 Cl. no. 5.1.1, up to amendment no-5
25.		Resistance to abrasion test	IS 2553 Part -2: 2019 Cl. no. 5.1.2, up to amendment no-5
26.		Resistance to radiation test	IS 2553 Part -2: 2019 Cl. no. 5.3.1, up to amendment no-5
27.		Resistance to high temperature test	IS 2553 Part -2: 2019 Cl. no. 5.3.2, up to amendment no-5
28.		Resistance to humidity test	IS 2553 Part -2: 2019 Cl. no. 5.3.3, up to amendment no-5
29.	Laminated safety glass for windscreen application	227 g ball drop test	IS 2553 Part -2: 2019 Cl. no. 5.4.5, up to amendment no-5
30.		2260 g ball drop test	IS 2553 Part -2: 2019 Cl. no. 5.4.4, up to amendment no-5
31.		Head - form impact test	IS 2553 Part -2: 2019 Cl. no. 5.4.3, up to amendment no-5

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Automotive Components		
32.		Secondary image separation test	IS 2553 Part -2: 2019 Cl. no. 5.4.2, up to amendment no-5
33.		Optical distortion test	IS 2553 Part -2: 2019 Cl. no. 5.4.1, up to amendment no-5
34.		Laminated panes for side window/ sun-roof/ moon-roof application	227 g ball drop test
35.	Uniformly toughened glass panes for side window/ sun-roof/ moon-roof application	Light transmittance test	IS 2553 Part -2: 2019 Cl. no. 5.5.2.1, up to amendment no-5
36.		Fragmentation test	IS 2553 Part -2: 2019 Cl. no. 5.5.1.1, up to amendment no-5
37.		227 g ball drop test	IS 2553 Part -2: 2019 Cl. no. 5.5.1.2, up to amendment no-5
38.	For all type of safety glass (laminated windscreen/ panes/ uniformly toughened)	Nominal thickness measurement test	IS 2553 Part -2: 2019 Cl. no.3.7, up to amendment no-5
39.	Safety glass for appliances	Thermal shock- method-D	Cl. no 4.4- IS 6506-1972 (IS 2553 Part-1:2018 Scope)
40.	Safety glass/glass for architectural and building use	Dimensions and squareness test for curved glass	IS 2553 Part -1: 2018 Cl. no. 5.2.2.3, up to amendment no-2
41.	Safety glass	Tests as per IS 2553 Part 2	AIS-037 Safety components/Sr.No.1 of Annex B

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Automotive Components</b>			
(C)	<b>Tyre Testing (Automotive Components/Tyres)</b>		
42.	Pneumatic tyres for passenger cars	Tyre dimensions test (section width of tyre)	IS 15633: 2022 Cl. no. 4.1, 4.1.1.1 and 4.1.3.1, up to amendment no-1
43.		Tyre dimensions test (Tyre outer Diameter)	IS 15633: 2022 Cl. no. 4.1, 4.1.1.2 and 4.1.3.2, up to amendment no-1
44.		Tyre Markings test	IS 15633: 2022 Cl. no. 5.1, 5.2, 5.3, up to amendment no-1
45.		Load / speed performance test	IS 15633: 2022 Cl. no. 4.2, up to amendment no-1
46.		Endurance test	IS 15633: 2022 Cl. no. 4.3, up to amendment no-1
47.		Bead unseating resistance test for tubeless tyre	IS 15633: 2022 Cl. no. 4.4, up to amendment no-1
48.		Tread wear indicator test	IS 15633: 2022 Cl. no. 4.5, up to amendment no-1
49.		Tyre strength test (Plunger test)	IS 15633: 2022 Cl. no. 4.6, up to amendment no-1
50.	Pneumatic tyres for commercial vehicles	Tyre dimensions test (section width of tyre)	IS 15636: 2022 Cl. no. 4.1., 4.1.1.1
51.		Tyre dimensions test (tyre outer diameter)	IS 15636: 2022 Cl. no. 4.1. 4.1.1.2
52.		Tyre markings test	IS 15636: 2022 Cl. no. 5.1, 5.2, 5.3

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Automotive Components		
53.		Load / speed performance test	IS 15636: 2022 Cl. no. 4.3
54.		Endurance test	IS 15636: 2022 Cl. no. 4.2
55.		Tread wear indicator test	IS 15636: 2022 Cl. no. 4.4
56.		Tyre strength test (plunger test)	IS 15636: 2022 Cl. no. 4.5
57.	Automotive components/pneumatic tyres for two and three wheel, quadricycles and E-rickshaw/E- carts	Section Width of tyre	IS 15627: 2022 Cl. no. 4.1, up to amendment no- 1
58.		Tyre outer diameter	IS 15627: 2022 Cl. no. 4.1, up to amendment no- 1
59.		Load/Speed performance test	IS 15627: 2022 Cl. no. 4.2, up to amendment no- 1
60.		Tyre strength test (Plunger Test)	IS 15627: 2022 Cl. no. 4.4, up to amendment no- 1
61.		Endurance Test	IS 15627: 2022 Cl. no. 4.5, up to amendment no- 1
62.		Tread wear indicators	IS 15627: 2022 Cl. no. 4.6, up to amendment no- 1
63.		Marking	IS 15627: 2022 Cl. no.5, up to amendment no- 1
64.	Pneumatic tyre for passenger car vehicle	Load/speed performance test for run flat and extended mobility tyres	IS 15633: 2022 CL. 4.2.7 & 4.2.8 up to amendment 1: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Automotive Components</b>		
(D)	<b>Wheel Rim (Automotive Components/Wheel Rim/Automotive Use)</b>		
65.	Wheel rim of passenger car tyres	Dynamic cornering fatigue test	IS 9436: 2018 Cl. no.5.1, up to amendment no- 2
66.		Dynamic radial fatigue test	IS 9436: 2018 Cl. no.5.2, up to amendment no- 2
67.		Markings	IS 9436: 2018 Cl. no.7.1 and 7.2, up to amendment no- 2
68.	Wheel rim for M and N category	Tests as per IS 9436 and IS 9438	AIS-037 Safety components/Sr. no. 11 of Annex B
69.	Wheel rim of commercial vehicle (Truck/Bus)	Dynamic cornering fatigue test	IS 9438: 2018 Cl. no.5.1, up to amendment no- 2
70.		Dynamic radial fatigue test	IS 9438: 2018 Cl. no.5.2, up to amendment no- 2
71.		Marking	IS 9438: 2018 Cl. no.7.1 and 7.2, up to amendment no- 2
72.	Automotive components- wheel rim for two and three wheeled vehicles (Light alloy wheel rims)	General requirements	IS 16192(Part 1): 2014 Cl. no.4.1 with amendment no- 2
73.		General requirements	AIS-073(Part 1) Cl. no.6.1
74.		Rotation bending fatigue test (Dynamic cornering fatigue test)	IS 16192(Part 1): 2014 Cl. no.4.2 with amendment no- 2

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Automotive Components		
75.		Rotation bending fatigue test (Dynamic cornering fatigue Test)	AIS-073(Part 1) Cl. no.6.2
76.		Radial load durability test	IS 16192(Part 1): 2014 Cl. no.4.3 with amendment no- 2
77.		Radial load durability test	AIS-073(Part 1) Cl. no.6.3
78.		Radial impact resistance test	IS 16192(Part 1): 2014 Cl. no.4.4 with amendment no- 2
79.		Radial impact resistance test	AIS-073(Part 1) Cl. no.6.4
80.		Torsion moment test	IS 16192(Part 1): 2014 Cl. no.4.5 with amendment no- 2
81.		Torsion moment test	AIS-073(Part 1) Cl. no.6.5
82.		Air leak test (Tubeless Tyres wheel rim)	IS 16192(Part 1): 2014 Cl. no.4.6 with amendment no- 2
83.		Air leak test	AIS-073(Part 1) Cl. no.6.6
84.		Marking	IS 16192(Part 1): 2014 Cl. no.6 with amendment no- 2
85.		Marking	AIS-073(Part 1) Cl. no.4.0

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Automotive Components		
86.	Automotive components- wheel rim for two and three wheeled vehicles (Sheet metal wheel rims)	General requirements	IS 16192(Part 2): 2014 Cl. no.4.1 with amendment no- 2
87.		Dynamic cornering fatigue test (CFT)	IS 16192(Part 2): 2014 Cl. no.4.2.3 with amendment no- 2
88.		Dynamic cornering fatigue test (CFT)	AIS-073(Part 2) Cl. no.6.2.3
89.		Dynamic radial fatigue test (RFT)	IS 16192(Part 2): 2014 Cl. no.4.2.4 with amendment no- 2
90.		Dynamic radial fatigue test (RFT)	AIS-073(Part 2) Cl. no.6.2.4
91.		Marking	IS 16192(Part 2): 2014 Cl. no.6 with amendment no- 2
92.		Marking	AIS-073(Part 2) Cl. no.4.0

