

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Alpha Test House Services LLP

Plot No. 124, Industrial Area, Phase 9, Mohali,
S.A.S Nagar-160062, Punjab, 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/2024/0087

Valid from: 22 November 2024

Valid until: 21 November 2026

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
1.	Plywood for general purposes	Grades and class	Cl. 4 of IS 303: 2024
2.	Plywood for general purposes	Types based on classification by appearance	Cl. 5 of IS 303: 2024
3.	Plywood for general purposes	Materials	Cl. 6 of IS 303: 2024
4.	Plywood for general purposes	Manufacture	Cl. 7 of IS 303: 2024
5.	Plywood for general purposes	Dimensions and tolerances	Cl. 8 of IS 303: 2024
6.	Plywood for general purposes	Workmanship and finish	Cl. 9 of IS 303: 2024
7.	Plywood for general purposes	Physical and mechanical requirements	Cl. 11 of IS 303: 2024
8.	Plywood	Test for adhesion of plies	IS 1734 (Part 5): 1983
9.	Plywood for general purposes	Glue adhesion	Cl. 11.3 of IS 303: 2024
10.	Plywood for general purposes	Water resistance test	Cl. 11.3.1 of IS 303: 2024
11.	Plywood for general purposes	Mycological test	Cl. 11.3.2 of IS 303: 2024
12.	Plywood	Mycological test	IS 1734 (Part 7): 1983
13.	Plywood for general purposes	Moisture content	Cl. 11.4 of IS 303: 2024
14.	Plywood	Determination of density and moisture content	IS 1734 (Part 1): 1983
15.	Plywood for general purposes	Static bending strength	Cl. 11.5 of IS 303: 2024

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
16.	Plywood	Determination of static bending strength	IS 1734 (Part 11): 1983
17.	Plywood	Determination of resistance to dry heat	IS 1734 (Part 2): 1983
18.	Plywood	Determination of fire resistance	IS 1734 (Part 3): 1983
19.	Plywood	Determination of glue shear strength	IS 1734 (Part 4) : 1983
20.	Plywood	Determination of water resistance	IS 1734 (Part 6) : 1983
21.	Plywood	Determination of tensile strength	IS 1734 (Part 9) : 1983
22.	Plywood	Determination of compressive strength	IS 1734 (Part 10) : 1983
23.	Plywood	Determination of static bending strength	IS 1734 (Part 11) : 1983
24.	Plywood	Determination of panel shear strength	IS 1734 (Part 13) : 1983
25.	Plywood	Determination of plate shear strength	IS 1734 (Part 14) : 1983
26.	Plywood	Impact resistance test	IS 1734 (Part 18) : 1983
27.	Plywood	Determination of nails and screw holding power	IS 1734 (Part 19) : 1983

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
28.	Plywood for general purposes	Additional requirements for eco-mark	Cl. 12 of IS 303: 2024
29.	Plywood for general purposes	Marking	Cl. 13 of IS 303: 2024
30.	Plywood for general purposes	Delivery	Cl. 14 of IS 303: 2024
31.	Plywood for concrete Shuttering works	Types	Cl. 4 of IS 4990: 2024
32.		Materials	Cl. 5 of IS 4990: 2024
33.		Manufacture	Cl. 6 of IS 4990: 2024
34.		Dimensions and tolerances	Cl. 7 of IS 4990: 2024
35.		Workmanship and finish	Cl. 8 of IS 4990: 2024
36.		Moisture content	Cl. 10.3 of IS 4990: 2024
37.		Glue shear strength	Cl. 10.4.1 of IS 4990: 2024
38.		Adhesion of plies	Cl. 10.4.2 of IS 4990: 2024
39.		Resistance to water test	Cl. 10.5 of IS 4990: 2024
40.		Boiling test	Cl. 10.6 of IS 4990: 2024
41.		Mycological test	Cl. 10.7 of IS 4990: 2024
42.		Tensile strength	Cl. 10.8 of IS 4990: 2024
43.		Static bending strength	Cl. 10.9 of IS 4990: 2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
44.	Plywood for concrete shuttering works	Wet bending strength	Cl. 10.10 of IS 4990: 2024
45.		Retention of preservative	Cl. 10.11 of IS 4990: 2024
46.	Preservatives in treated. Timber and in treating solutions	Retention of preservative	IS 2753 (Part 1) : 1991
47.	Plywood for concrete shuttering works	Additional requirements for eco-mark	Cl. 11 of IS 4990: 2024
48.		Marking	Cl. 12 of IS 4990: 2024
49.		Edge straightness and squareness	ANNEX C of IS 4990: 2024
50.		Water resistance test	ANNEX D of IS 4990: 2024
51.	Marine plywood	Materials	Cl. 4 of IS 710: 2024
52.	Marine plywood	Manufacture	Cl. 5 of IS 710: 2024
53.	Marine plywood	Dimensions	Cl. 6 of IS 710: 2024
54.	Marine plywood	Workmanship and finish	Cl. 7 of IS 710: 2024
55.	Marine plywood	Moisture content	Cl. 9.3 of IS 710: 2024
56.	Marine plywood	Glue shear strength	Cl. 9.4.1 of IS 710: 2024
57.	Marine plywood	Adhesion of plies	Cl. 9.4.2 of IS 710: 2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
58.	Marine plywood	Water resistance test	Cl. 9.5 of IS 710: 2024
59.	Marine plywood	Tensile strength	Cl. 9.6 of IS 710: 2024
60.	Marine plywood	Mycological test	Cl. 9.7 of IS 710: 2024
61.	Marine plywood	Static bending strength	Cl. 9.8 of IS 710: 2024
62.	Marine plywood	Wet bending strength	Cl. 9.9 of IS 710: 2024
63.	Marine plywood	Retention of preservative	Cl. 9.10 of IS 710: 2024
64.	Marine plywood	Additional requirements for eco-mark	Cl. 10 of IS 710: 2024
65.	Marine plywood	Marking	Cl. 11 of IS 710: 2024
66.		Types	Cl. 4 of IS 848: 2006+ A1: 2007 + A2: 2011
67.	Synthetic resin adhesives for plywood (phenolic and amino plastic)	Cyclic Test	Cl. 7.3 of IS 848: 2006+ A1: 2007 + A2: 2011
68.		Marking	Cl. 9 of IS 848: 2006+ A1: 2007 + A2: 2011
69.		Preparation of test pieces	ANNEX - A of IS 848: 2006+ A1: 2007 + A2: 2011
70.	Veneered decorative plywood	Types	Cl. 4 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
71.	Veneered decorative plywood	Materials	Cl. 5 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007
72.	Veneered decorative plywood	Requirements	Cl. 7 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007
73.	Veneered decorative plywood	Designation of dimensions and tolerances	Cl. 8 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007
74.	Veneered decorative plywood	Finish	Cl. 9 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007
75.	Veneered decorative plywood	Moisture content	Cl. 11.1.1 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007
76.	Veneered decorative plywood	Water resistance test	Cl. 11.1.2 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007
77.	Veneered decorative plywood	Inspection and delivery	Cl. 12 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
78.	Veneered decorative plywood	Marking	Cl. 13 of IS 1328: 1996 +A1:2000 +A2:2002 +A3:2005 +A4:2005 +A5:2006 +A7:2007
79.	Block boards	Grades and types	Cl. 4 of IS 1659: 2004 +A1:2009 +A2:2011
80.	Block boards	Materials	Cl. 5 of IS 1659: 2004 +A1:2009 +A2:2011
81.	Block boards	Dimensions and tolerances	Cl. 7 of IS 1659: 2004 +A1:2009 +A2:2011
82.	Block boards	Dimensional changes caused by humidity	Cl. 9.2.1 of IS 1659: 2004 +A1:2009 +A2:2011
83.	Block boards	Resistance to water	Cl. 9.2.2 of IS 1659: 2004 +A1:2009 +A2:2011
84.	Block boards	Adhesion of plies	Cl. 9.2.3 of IS 1659: 2004 +A1:2009 +A2:2011
85.	Block boards	Mycological test	Cl. 9.2.4 of IS 1659: 2004 +A1:2009 +A2:2011
86.	Block boards	Modulus of rupture and modulus of elasticity	Cl. 9.2.5 of IS 1659: 2004 +A1:2009 +A2:2011
87.	Block boards	Spot test	Cl. 9.2.6 of IS 1659: 2004 +A1:2009 +A2:2011
88.	Block boards	Additional requirements for eco-mark	Cl. 10 of IS 1659: 2004 +A1:2009 +A2:2011

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
89.	Block boards	Marking	Cl. 11 of IS 1659: 2004 +A1:2009 +A2:2011
90.	Block boards	Test for thickness and variation in thickness	ANNEX D of IS 1659: 2004 +A1:2009 +A2:2011
91.	Block boards	Test for determining dimensional changes caused by humidity	ANNEX E of IS 1659: 2004 +A1:2009 +A2:2011
92.	Block boards	Test for determining resistance to water	ANNEX F of IS 1659: 2004 +A1:2009 +A2:2011
93.	Block boards	Test for adhesion of plies	ANNEX G of IS 1659: 2004 +A1:2009 +A2:2011
94.	Block boards	Mycological test	ANNEX H of IS 1659: 2004 +A1:2009 +A2:2011
95.	Block boards	Test for modulus of rupture and modulus of elasticity	ANNEX J of IS 1659: 2004 +A1:2009 +A2:2011
96.	Block boards	Method for the determination of penetration and identification of preservative by spot test	ANNEX K of IS 1659: 2004 +A1:2009 +A2:2011
97.	Wooden flush door shutters (solid core type)	Grade, type and construction	Cl. 4 of IS 2202-2: 2022 +A1:2024
98.		Sizes and tolerances	Cl. 5 of IS 2202-2: 2022 +A1:2024
99.		Material	Cl. 6 of IS 2202-2: 2022 +A1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
100.	Wooden flush door shutters (solid core type)	Construction	Cl. 7 of IS 2202-2: 2022 +A1:2024
101.		Fittings	Cl. 8 of IS 2202-2: 2022 +A1:2024
102.		Workmanship and finish	Cl. 9 of IS 2202-2: 2022 +A1:2024
103.		End immersion tested	Cl. 10.2 of IS 2202-2: 2022 +A1:2024
104.		Glue adhesion test	Cl. 10.3 of IS 2202-2: 2022 +A1:2024
105.		Additional requirements for eco mark	Cl. 12 of IS 2202-2: 2022 +A1:2024
106.		Marking	Cl. 13 of IS 2202-2: 2022 +A1:2024
107.	Medium density fibre boards for general purpose	Classification	Cl. 4 of IS 12406: 2021
108.		Material	Cl. 5 of IS 12406: 2021
109.		Finish	Cl. 7 of IS 12406: 2021
110.		Dimensions and tolerances	Cl. 8 of IS 12406: 2021
111.		Physical, mechanical and other requirements	Cl. 9 of IS 12406: 2021
112.		Additional requirements for eco-mark	Cl. 11 of IS 12406: 2021
113.		Marking	Cl. 13 of IS 12406: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
114.	Medium density fibre boards for general purpose	Method of test for edge straightness and squareness	ANNEX A of IS 12406: 2021
115.	Prelaminated medium density fibre board	Classification	Cl. 4 of IS 14587: 2023
116.		Materials	Cl. 5 of IS 14587: 2023
117.		Finish	Cl. 7 of IS 14587: 2023
118.		Dimensions and tolerances	Cl. 8 of IS 14587: 2023
119.		Physical, mechanical and other requirements	Cl. 9 of IS 14587: 2023
120.		Additional requirements for eco-mark	Cl. 11 of IS 14587: 2023
121.		Marking	Cl. 12 of IS 14587: 2023
122.		Method of test for edge straightness and squareness	ANNEX B of IS 14587: 2023
123.		Method of test for determining surface abrasion resistance	ANNEX C of IS 14587: 2023
124.		Method of test for determining surface resistance to steam	ANNEX D of IS 14587: 2023
125.	Method of test for determining resistance to cracking of lamination under heat	ANNEX E of IS 14587: 2023	



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Wood and Wood Products			
126.	Prelaminated medium density fibre board	Method of test for determining resistance to cigarette burn	ANNEX F of IS 14587: 2023
127.		Method of test for determining resistance to stain	ANNEX G of IS 14587: 2023
128.	Wooden flush door shutters (cellular, hollow and tubular core type)	Grade, type and construction	Cl. 4 of IS 2191-1: 2022 +A1:2024
129.		Sizes	Cl. 5 of IS 2191-1: 2022 +A1:2024
130.		Materials	Cl. 6 of IS 2191-1: 2022 +A1:2024
131.		Construction	Cl. 7 of IS 2191-1: 2022 +A1:2024
132.		Fittings	Cl. 8 of IS 2191-1: 2022 +A1:2024
133.		Workmanship and finish	Cl. 9 of IS 2191-1: 2022 +A1:2024
134.		Tests	Cl. 10 of IS 2191-1: 2022 +A1:2024
135.		Dimensions and squareness test	Cl. 11.1 of IS 2191-1: 2022 +A1:2024
136.		General flatness test	Cl. 11.2 of IS 2191-1: 2022 +A1:2024
137.		Local planeness test	Cl. 11.3 of IS 2191-1: 2022 +A1:2024
138.		Impact indentation test	Cl. 11.4 of IS 2191-1: 2022 +A1:2024
139.		Flexure test	Cl. 11.5 of IS 2191-1: 2022 +A1:2024
140.		Edge loading test	Cl. 11.6 of IS 2191-1: 2022 +A1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
141.	Wooden flush door shutters (cellular, hollow and tubular core type)	Shock resistance test	Cl. 11.7 of IS 2191-1: 2022 +A1:2024
142.		Buckling resistance test	Cl. 11.8 of IS 2191-1: 2022 +A1:2024
143.		Slamming test	Cl. 11.9 of IS 2191-1: 2022 +A1:2024
144.		Misuse test	Cl. 11.10 of IS 2191-1: 2022 +A1:2024
145.		Varying humidity test	Cl. 11.11 of IS 2191-1: 2022 +A1:2024
146.		End immersion test	Cl. 11.12 of IS 2191-1: 2022 +A1:2024
147.		Knife test	Cl. 11.13 of IS 2191-1: 2022 +A1:2024
148.		Glue adhesion test	Cl. 11.14 of IS 2191-1: 2022 +A1:2024
149.		Screw withdrawal resistance test	Cl. 11.15 of IS 2191-1: 2022 +A1:2024
150.		Additional requirements for eco mark	Cl. 13 of IS 2191-1: 2022 +A1:2024
151.		Marking	Cl. 14 of IS 2191-1: 2022 +A1:2024
152.		Grade, type and construction	Cl. 4 of IS 2191-2: 2022 +A1:2024
153.		Sizes and tolerances	Cl. 5 of IS 2191-2: 2022 +A1:2024
154.		Material	Cl. 6 of IS 2191-2: 2022 +A1:2024
155.		Construction	Cl. 7 of IS 2191-2: 2022 +A1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Wood and Wood Products			
156.	Wooden flush door shutters (cellular, hollow and tubular core type)	Fittings	Cl. 8 of IS 2191-2: 2022 +A1:2024
157.		Workmanship and finish	Cl. 9 of IS 2191-2: 2022 +A1:2024
158.		End immersion test	Cl. 10.2 of IS 2191-2: 2022 +A1:2024
159.		Glue adhesion test	Cl. 10.3 of IS 2191-2: 2022 +A1:2024
160.		Additional requirements for eco mark	Cl. 12 of IS 2191-2: 2022 +A1:2024
161.		Marking	Cl. 13 of IS 2191-2: 2022 +A1:2024
162.		Door shutters	Measurement of dimensions and squareness
163.	Door shutters	Measurement of general flatness	IS 4020 (Part 3): 1998 +A1:2011
164.	Door shutters	Local planeness test	IS 4020 (Part 4): 1998 +A1:2011
165.	Door shutters	Impact indentation test	IS 4020 (Part 5): 1998
166.	Door shutters	Edge loading test	IS 4020 (Part 7): 1998 +A1:2011
167.	Door shutters	Shock resistance test	IS 4020 (Part 8): 1998
168.	Door shutters	Buckling resistance test	IS 4020 (Part 9): 1998
169.	Door shutters	Slamming test	IS 4020 (Part 10): 1998
170.	Door shutters	Misuse test	IS 4020 (Part 11): 1998

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
171.	Door shutters	Varying humidity test	IS 4020 (Part 12): 1998
172.	Door shutters	End immersion test	IS 4020 (Part 13): 1998
173.	Door shutters	Knife test	IS 4020 (Part 14): 1998
174.	Door shutters	Glue adhesion test	IS 4020 (Part 15): 1998
175.	Door shutters	Screw withdrawal resistance test	IS 4020 (Part 16): 1998
176.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Classes and types	Cl. 4 of IS 3087: 2005 +A1:2006 + A2:2011 +A3:2016 +A4:2017+A5:2018
177.		Materials	Cl. 5 of IS 3087: 2005 +A1:2006 + A2:2011 +A3:2016 +A4:2017+A5:2018
178.		Manufacture	Cl. 6 of IS 3087: 2005 +A1:2006 + A2:2011 +A3:2016 +A4:2017+A5:2018
179.		Finish	Cl. 7 of IS 3087: 2005 +A1:2006 + A2:2011 +A3:2016 +A4:2017+A5:2018
180.		Dimensions and tolerances	Cl. 8 of IS 3087: 2005 +A1:2006 + A2:2011 +A3:2016 +A4:2017+A5:2018
181.		Physical characteristics	Cl. 9 of IS 3087: 2005 +A1:2006+ A2:2011 +A3:2016 +A4:2017+A5:2018
182.		Test specimens and number of tests	Cl. 10.2 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016+A4:2017+ A5:2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
183.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Criteria for conformity	Cl. 10.3 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
184.		Accuracy of dimensions of boards	Cl. 11.2 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
185.		Test for density	Cl. 11.3 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
186.		Test for moisture content	Cl. 11.4 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
187.		Test for water absorption	Cl. 11.5 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
188.		Test for swelling water	Cl. 11.6 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
189.		Test for swelling due to surface absorption	Cl. 11.7 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
190.		Test for modulus of rupture and modulus of elasticity	Cl. 11.8 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
191.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Test for tensile strength perpendicular to surface	Cl. 11.9 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
192.		Test for screw withdrawal strength	Cl. 11.10 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
193.		Additional requirements for eco mark	Cl. 12 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
194.		Marking	Cl. 13 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
195.		Storage and working of wood particle boards	ANNEX B of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
196.	Veneered particle boards	Grades and types	Cl. 4 of IS 3097: 2006
197.	Veneered particle boards	Material	Cl. 5 of IS 3097: 2006
198.	Veneered particle boards	Manufacture	Cl. 6 of IS 3097: 2006
199.	Veneered particle boards	Dimensions and tolerances	Cl. 7 of IS 3097: 2006
200.	Veneered particle boards	Determination of density	Cl. 9.1 a) of IS 3097: 2006
201.	Veneered particle boards	Determination of moisture content	Cl. 9.1 b) of IS 3097: 2006

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
202.	Veneered particle boards	Water absorption	Cl. 9.1 c) of IS 3097: 2006
203.	Veneered particle boards	Water resistance test	Cl. 9.1 d) of IS 3097: 2006
204.	Veneered particle boards	Determination of swelling in water	Cl. 9.1 e) of IS 3097: 2006
205.	Veneered particle boards	Adhesion of plies	Cl. 9.1 f) of IS 3097: 2006
206.	Veneered particle boards	Modulus of rupture (MOR) and modulus of elasticity (MOE)	Cl. 9.1 g) of IS 3097: 2006
207.	Veneered particle boards	Determination of deflection under sustained load (long time loading test)	Cl. 9.1 h) of IS 3097: 2006
208.	Veneered particle boards	Additional requirements for eco mark	Cl. 10 of IS 3097: 2006
209.	Veneered particle boards	Marking	Cl. 11 of IS 3097: 2006
210.	Veneered particle boards	Method of test for edge straightness and squareness	ANNEX C of IS 3097: 2006
211.	Method of test for wood particle boards and boards from other lignocellulosic material	Preparation and conditioning of test specimens	IS 2380 (Part 1): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
212.		Accuracy of dimensions of boards	IS 2380 (Part 2): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
213.		Determination of moisture of content and density	IS 2380 (Part 3): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
214.	Method of test for wood particle boards and boards from other lignocellulosic material	Determination of static bending strength (modulus of rupture and modulus of elasticity in bending)	IS 2380 (Part 4): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
215.		Determination of tensile strength perpendicular to surface	IS 2380 (Part 5): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
216.		Determination of tensile strength parallel to surface	IS 2380 (Part 6): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
217.		Determination of compression perpendicular to plane of the board	IS 2380 (Part 7): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
218.		Compression parallel to surface test	IS 2380 (Part 8): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
219.		Determination of resistance to shear in plane of the board	IS 2380 (Part 9): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
220.		Falling hammer impact test	IS 2380 (Part 10): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
221.		Surface hardness	IS 2380 (Part 11): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
222.		Central loading of plate test	IS 2380 (Part 12): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
223.	Method of test for wood particle boards and boards from other lignocellulosic material	Long time loading bending test	IS 2380 (Part 13): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
224.		Screw and nail withdrawal test	IS 2380 (Part 14): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
225.		Lateral nail resistance	IS 2380 (Part 15): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
226.		Determination of water absorption	IS 2380 (Part 16): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
227.		Determination of swelling in water	IS 2380 (Part 17): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
228.		Determination of mass and dimensional changes caused by moisture changes	IS 2380 (Part 18): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
229.		Durability cycle test for interior use	IS 2380 (Part 19): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
230.		Accelerated weathering cycle test for exterior use	IS 2380 (Part 20): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
231.		Planeness test under uniform moisture content	IS 2380 (Part 21): 1977 +A1:1980 +A2:1984 +A3:1993 +A4:1998
232.		Prelaminated particle boards from wood and other	Grades and types
233.	lignocellulosic material	Materials	Cl.5 of IS 12823: 2015 +A1:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
234.	Prelaminated particle boards from wood and other lignocellulosic material	Manufacture	Cl.6 of IS 12823: 2015 +A1:2018
235.		Finish	Cl.7 of IS 12823: 2015 +A1:2018
236.		Dimensions and tolerances	Cl.8 of IS 12823: 2015 +A1:2018
237.		Test for density	Cl.10.2 of IS 12823: 2015 +A1:2018
238.		Test for moisture content	Cl.10.3 of IS 12823: 2015 +A1:2018
239.		Test for water absorption	Cl.10.4 of IS 12823: 2015 +A1:2018
240.		Test for swelling in water	Cl.10.5 of IS 12823: 2015 +A1:2018
241.		Test for modulus of rupture (MOR) and modulus of elasticity (MOE)	Cl.10.6 of IS 12823: 2015 +A1:2018
242.		Test for tensile strength perpendicular to surface	Cl.10.7 of IS 12823: 2015 +A1:2018
243.		Test for tensile strength perpendicular to surface after ageing	Cl.10.8 of IS 12823: 2015 +A1:2018
244.		Test for screw withdrawal strength	Cl.10.9 of IS 12823: 2015 +A1:2018
245.		Test for abrasion resistance	Cl.10.10 of IS 12823: 2015 +A1:2018
246.		Test for resistance to steam	Cl.10.11 of IS 12823: 2015 +A1:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
247.	Prelaminated particle boards from wood and other lignocellulosic material	Test for crack resistance	Cl.10.12 of IS 12823: 2015 +A1:2018
248.		Test for resistance to cigarette burn	Cl.10.13 of IS 12823: 2015 +A1:2018
249.		Test for resistance to stain	Cl.10.14 of IS 12823: 2015 +A1:2018
250.		Additional requirements for eco-mark	Cl.11 of IS 12823: 2015 +A1:2018
251.		Marking	Cl.12 of IS 12823: 2015 +A1:2018
252.		Method of test for edge straightness and squareness	ANNEX B of IS 12823: 2015 +A1:2018
253.		Method of test for determining surface abrasion resistance	ANNEX C of IS 12823: 2015 +A1:2018
254.		Method of determining surface resistance to steam	ANNEX D of IS 12823: 2015 +A1:2018
255.		Method of test for determining resistance to cracking of lamination under heat	ANNEX E of IS 12823: 2015 +A1:2018
256.		Method of test for determining resistance to cigarette burn	ANNEX F of IS 12823: 2015 +A1:2018
257.	Method of test for determining resistance to stain	ANNEX G of IS 12823: 2015 +A1:2018	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
258.	Wooden flush door shutters (solid core type)	Grade, type and construction	Cl. 4 of IS 2202 (Part 1):2023 +A1:2024
259.	Wooden flush door shutters (solid core type)	Sizes	Cl. 5 of IS 2202 (Part 1):2023 +A1:2024
260.	Wooden flush door shutters (solid core type)	Material	Cl. 6 of IS 2202 (Part 1):2023 +A1:2024
261.	Wooden flush door shutters (solid core type)	Construction	Cl. 7 of IS 2202 (Part 1):2023 +A1:2024
262.	Wooden flush door shutters (solid core type)	Fittings	Cl. 8 of IS 2202 (Part 1):2023 +A1:2024
263.	Wooden flush door shutters (solid core type)	Workmanship and finish	Cl. 9 of IS 2202 (Part 1):2023 +A1:2024
264.	Wooden flush door shutters (solid core type)	Tests	Cl. 10 of IS 2202 (Part 1):2023 +A1:2024
265.	Wooden flush door shutters (solid core type)	Dimensions and squareness test	Cl. 11.1 of IS 2202 (Part 1):2023 +A1:2024
266.	Wooden flush door shutters (solid core type)	General flatness test	Cl. 11.2 of IS 2202 (Part 1):2023 +A1:2024
267.	Wooden flush door shutters (solid core type)	Local planeness test	Cl. 11.3 of IS 2202 (Part 1):2023 +A1:2024
268.	Wooden flush door shutters (solid core type)	Impact indentation test	Cl. 11.4 of IS 2202 (Part 1):2023 +A1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
269.	Wooden flush door shutters (solid core type)	Flexure test	Cl. 11.5 of IS 2202 (Part 1):2023 +A1:2024
270.	Wooden flush door shutters (solid core type)	Edge loading test	Cl. 11.6 of IS 2202 (Part 1):2023 +A1:2024
271.	Wooden flush door shutters (solid core type)	Shock resistance test	Cl. 11.7 of IS 2202 (Part 1):2023 +A1:2024
272.	Wooden flush door shutters (solid core type)	Buckling resistance test	Cl. 11.8 of IS 2202 (Part 1):2023 +A1:2024
273.	Wooden flush door shutters (solid core type)	Slamming test	Cl. 11.9 of IS 2202 (Part 1):2023 +A1:2024
274.	Wooden flush door shutters (solid core type)	Misuse test	Cl. 11.10 of IS 2202 (Part 1):2023 +A1:2024
275.	Wooden flush door shutters (solid core type)	Varying humidity test	Cl. 11.11 of IS 2202 (Part 1):2023 +A1:2024
276.	Wooden flush door shutters (solid core type)	End immersion test	Cl. 11.12 of IS 2202 (Part 1):2023 +A1:2024
277.	Wooden flush door shutters (solid core type)	Knife test	Cl. 11.13 of IS 2202 (Part 1):2023 +A1:2024
278.	Wooden flush door shutters (solid core type)	Glue adhesion test	Cl. 11.14 of IS 2202 (Part 1):2023 +A1:2024
279.	Wooden flush door shutters (solid core type)	Screw withdrawal resistance test	Cl. 11.15 of IS 2202 (Part 1):2023 +A1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
280.	Structural plywood	Material	Cl. 4 of IS 10701: 2012
281.	Structural plywood	Plywood	Cl. 5 of IS 10701: 2012
282.	Structural plywood	Treatment	Cl. 6 of IS 10701: 2012
283.	Structural plywood	Manufacture	Cl. 7 of IS 10701: 2012
284.	Structural plywood	Dimensions and tolerances	Cl. 8 of IS 10701: 2012
285.	Structural plywood	Workmanship and finish	Cl. 9 of IS 10701: 2012
286.	Structural plywood	Moisture content	Cl. 11.2 of IS 10701: 2012
287.	Structural plywood	Glue shear strength in dry state	Cl. 11.3 of IS 10701: 2012
288.	Structural plywood	Resistance to water	Cl. 11.4 of IS 10701: 2012
289.	Structural plywood	Resistance to micro-organisms	Cl. 11.5 of IS 10701: 2012
290.	Structural plywood	Tensile strength	Cl. 11.6 of IS 10701: 2012
291.	Structural plywood	Tests for compressive strength, bending strength (modulus of elasticity and modulus of rupture), panel shear strength, plate shear strength (modulus of rigidity) and rolling shear strength	Cl. 11.7 of IS 10701: 2012

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
292.	Structural plywood	Wet bending strength	Cl. 11.8 of IS 10701: 2012
293.	Structural plywood	Retention of preservative	Cl. 11.9 of IS 10701: 2012
294.	Structural plywood	Marking	Cl. 12 of IS 10701: 2012
295.	Structural plywood	Method of test for edge straightness and squareness	ANNEX C of IS 10701: 2012
296.	Structural plywood	Alternate method for water resistance test	ANNEX D of IS 10701: 2012
297.	Structural plywood	Method for determine the rolling shear strength of plywood for structural purposes	ANNEX E of IS 10701: 2012
298.	Fire retardant plywood	Flame retardants	Cl. 4 of IS 5509: 2021
299.	Fire retardant plywood	Preparation for treatment	Cl. 5 of IS 5509: 2021
300.	Fire retardant plywood	Fire retardant treatment	Cl. 6 of IS 5509: 2021
301.	Fire retardant plywood	Conditioning after treatment	Cl. 7 of IS 5509: 2021
302.	Fire retardant plywood	Dimensions and tolerance	Cl. 8 of IS 5509: 2021
303.	Fire retardant plywood	Workmanship and finish	Cl. 9 of IS 5509: 2021
304.	Fire retardant plywood	Test specimen and number of tests	Cl. 11 of IS 5509: 2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
305.	Fire retardant plywood	Test requirements	Cl. 12 of IS 5509: 2021
306.	Fire retardant plywood	Additional requirements for eco-mark	Cl. 13 of IS 5509: 2021
307.	Fire retardant plywood	Marking	Cl. 14 of IS 5509: 2021
308.	Fire retardant plywood	Method of test for edge straightness and squareness	ANNEX A of IS 5509: 2021



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
1.	Safety glass- specification	Types	Cl. 4 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
2.	Safety glass- specification	General	Cl. 5.1 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
3.	Safety glass- specification	Thickness	Cl. 5.2.1 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
4.	Safety glass- specification	Dimensions and squareness	Cl. 5.2.2 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
5.	Safety glass- specification	Fragmentation test	Cl. 5.2.3 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
6.	Safety glass- specification	Flatness	Cl. 5.2.4 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
7.	Safety glass- specification	Resistance to impact	Cl. 5.2.5 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
8.	Safety glass- specification	Fabrication in glass	Cl. 5.2.8 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
9.	Safety glass- specification	Edge working of glass for toughening	Cl. 5.2.9 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
10.	Safety glass- specification	Thickness	Cl. 5.3.1 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
11.	Safety glass- specification	Dimensions, squareness and edge displacement	Cl. 5.3.2 of IS 2553 (Part 1): 2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
12.	Safety glass- specification	Light stability test	Cl. 5.3.3 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
13.	Safety glass- specification	Boil and bake tests	Cl. 5.3.4 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
14.	Safety glass- specification	Fracture and adhesion test	Cl. 5.3.5 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
15.	Safety glass- specification	Defects in the central area	Cl. 5.3.6 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
16.	Safety glass- specification	Resistance to human impact test	Cl. 5.3.8 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
17.	Safety glass- specification	Working on glass after lamination	Cl. 5.3.9 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
18.	Safety glass- specification	Packing and marking	Cl. 6 of IS 2553 (Part 1): 2018 +A1:2022 +A2:2024
19.	Safety glass- specification	General requirements	Cl. 4 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
20.	Safety glass- specification	Markings	Cl. 4.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
21.	Safety glass- specification	Light transmittance test	Cl. 5.1.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023

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Alpha Test House Services LLP

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
22.	Safety glass- specification	Test of resistance to abrasion	Cl. 5.1.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
23.	Safety glass- specification	Test of resistance to temperature changes	Cl. 5.2.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
24.	Safety glass- specification	Test of resistance to fire	Cl. 5.2.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
25.	Safety glass- specification	Test of resistance to radiation	Cl. 5.3.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
26.	Safety glass- specification	Test of resistance to high temperature	Cl. 5.3.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
27.	Safety glass- specification	Test of resistance to humidity	Cl. 5.3.3 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
28.	Safety glass- specification	Optical distortion test	Cl. 5.4.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
29.	Safety glass- specification	Secondary image separation test	Cl. 5.4.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
30.	Safety glass- specification	Head-form test on windscreens	Cl. 5.4.3 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
31.	Safety glass- specification	2.260 g ball test	Cl. 5.4.4 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
32.	Safety glass- specification	227 g ball test	Cl. 5.4.5 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
33.	Safety glass- specification	Fragmentation test	Cl. 5.5.1.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
34.	Safety glass- specification	227 g ball test	Cl. 5.5.1.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
35.	Safety glass- specification	227 g ball test	Cl. 5.5.2.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
36.	Safety glass- specification	Individual components	Cl. 5.5.3.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
37.	Safety glass- specification	Head-form test	Cl. 5.5.3.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
38.	Safety glass- specification	Head-form test	Cl. 5.6.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
39.	Safety glass- specification	Mechanical strength test — 227g ball	Cl. 5.6.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
40.	Safety glass- specification	Flexibility and fold test	Cl. 5.6.3 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
41.	Safety glass- specification	Weathering	Cl. 5.6.4 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
42.	Safety glass- specification	Cross-cut	Cl. 5.6.5 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
43.	Safety glass- specification	227 g ball test at $20 \pm 5^{\circ}\text{C}$	Cl. 5.7.1 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
44.	Safety glass- specification	227g ball test at $-18^{\circ} \pm 2^{\circ}\text{C}$	Cl. 5.7.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
45.	Safety glass- specification	Flexibility test and fold test	Cl. 5.7.3 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
46.	Safety glass- specification	Fragmentation test	Cl. 6.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
47.	Safety glass- specification	227 g ball test	Cl. 6.3 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
48.	Safety glass- specification	2.260 g ball test	Cl. 6.4 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
49.	Safety glass- specification	Head-form test	Cl. 6.5 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
50.	Safety glass- specification	Test of resistance to abrasion	Cl. 6.6 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
51.	Safety glass- specification	Test of resistance to high temperature	Cl. 6.7 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
52.	Safety glass- specification	Test of resistance to radiation	Cl. 6.8 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
53.	Safety glass- specification	Test of resistance to humidity	Cl. 6.9 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
54.	Safety glass- specification	Test of resistance to temperature changes	Cl. 6.10 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
55.	Safety glass- specification	Light transmittance test	Cl. 6.11 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
56.	Safety glass- specification	Optical distortion test	Cl. 6.12 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
57.	Safety glass- specification	Secondary image separation test	Cl. 6.13 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
58.	Safety glass- specification	Fire resistance test	Cl. 6.14 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
59.	Safety glass- specification	Head form test with deceleration measurement for plastic glazing	Cl. 6.16 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
60.	Safety glass- specification	Flexibility test and fold test	Cl. 6.17 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
61.	Safety glass- specification	Weathering	Cl. 6.18 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
62.	Safety glass- specification	Cross-cut test	Cl. 6.19 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
63.	Safety glass- specification	Position of points	Cl. 7 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
64.	Safety glass- specification	Marking	Cl. 9.2 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
65.	Safety glass- specification	Raw material	Cl. 4.1 of IS 2553 (Part 3): 2019
66.	Safety glass- specification	Dimensions	Cl. 4.2 (i) Table 1 of IS 2553 (Part 3): 2019
67.	Safety glass- specification	Squareness	Cl. 4.2 (ii) Table 1 of IS 2553 (Part 3): 2019
68.	Safety glass- specification	Flatness (overall bow)	Cl. 4.2 (iii) Table 1 of IS 2553 (Part 3): 2019
69.	Safety glass- specification	Flatness (local distortion)	Cl. 4.2 (iv) Table 1 of IS 2553 (Part 3): 2019
70.	Safety glass- specification	Flatness (roller wave)	Cl. 4.2 (v) Table 1 of IS 2553 (Part 3): 2019
71.	Safety glass- specification	Fragmentation	Cl. 4.2 (vi) Table 1 of IS 2553 (Part 3): 2019
72.	Safety glass- specification	Resistance to shock (ball drop) test	Cl. 4.2 (vii) Table 1 of IS 2553 (Part 3): 2019
73.	Safety glass- specification	Mechanical strength	Cl. 4.2 (viii) Table 1 of IS 2553 (Part 3): 2019
74.	Safety glass- specification	Marking	Cl. 5.2 of IS 2553 (Part 3): 2019

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Glass			
75.	Specification for flat transparent sheet glass	Classification	Cl. 3 of IS 2835: 1987	
76.		Material	Cl. 4.1 of IS 2835: 1987	
77.		Dimensions	Cl. 4.2 of IS 2835: 1987	
78.		Distribution of allowable defects	Cl. 4.3 of IS 2835: 1987	
79.		Thickness	Cl. 5.1 of IS 2835: 1987	
80.		Scratches, rubs and crash	Cl. 5.2 of IS 2835: 1987	
81.		Bow	Cl. 5.3 of IS 2835: 1987	
82.		Reams, strings and lines	Cl. 5.4 of IS 2835: 1987	
83.		Marking	Cl. 6.2 of IS 2835: 1987	
84.		Test for waviness	Appendix A of IS 2835: 1987	
85.		Determination of thickness of sheet glass	Appendix B of IS 2835: 1987	
86.		Testing methods for processed glass	Thickness measurement	Cl. 5.1 of IS 17004: 2018
87.			Measurement of overall bow	Cl. 5.2 of IS 17004: 2018
88.			Measurement of wave and roller wave	Cl. 5.3 of IS 17004: 2018
89.	Measurement of edge lift		Cl. 5.4 of IS 17004: 2018	

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Glass			
90.	Testing methods for processed glass	Measurement of local distortion	Cl. 5.5 of IS 17004: 2018	
91.		Fragmentation test	Cl. 6.1 of IS 17004: 2018	
92.		Ball drop test	Cl. 6.2 of IS 17004: 2018	
93.		Mechanical strength test — four point bending test	Cl. 6.3 of IS 17004: 2018	
94.		Resistance to human impact	Cl. 6.4 of IS 17004: 2018	
95.		Surface compression test	Cl. 6.5 of IS 17004: 2018	
96.		High temperature test	Cl. 7.1 of IS 17004: 2018	
97.		Humidity test	Cl. 7.2 of IS 17004: 2018	
98.		Radiation test	Cl. 7.3 of IS 17004: 2018	
99.		Climate test	Cl. 7.4 of IS 17004: 2018	
100.		Argon gas level test	Cl. 7.5 of IS 17004: 2018	
101.		Light stability test	Cl. 7.6 of IS 17004: 2018	
102.		Transparent float glass-specification	Characteristic	Cl. 4.1 of IS 14900: 2018
103.			Visual light transmission	Cl. 4.2 of IS 14900: 2018
104.	Dimensions and tolerances		Cl. 4.3 of IS 14900: 2018	
105.	Optical faults		Cl. 4.4 & ANNEX C of IS 14900: 2018	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
106.	Transparent float glass — specification	Visual faults	Cl. 4.5 of IS 14900: 2018
107.		Defects on cut side	Cl. 4.6 of IS 14900: 2018
108.		Bloom	Cl. 4.7 & Annex F of IS 14900: 2018
109.		Marking	Cl. 5.2 of IS 14900: 2018
110.		UV test to identify the tin side of float glass	Annex A of IS 14900: 2018
111.		Determination of visual light transmittance	Annex B of IS 14900: 2018
112.		Determination of spot faults	Cl. 4.5.1 & Annex D of IS 14900: 2018
113.		Determination of reams, strings, lines and linear faults	Cl. 4.5.2, 4.5.3 & Annex E of IS 14900: 2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
1.	Gypsum Plaster Boards- Specification - Part 1 Plain Gypsum Plaster Boards	Types	Cl. 4 of IS 2095-1:2023
2.		Materials	Cl. 5 of IS 2095-1:2023
3.		Manufacturing	Cl. 6 of IS 2095-1:2023
4.		Dimensions and Tolerances	Cl. 7.1, Annex A & Annex B of IS 2095-1:2023
5.		Density	Cl. 7.2 & Annex C of IS 2095-1:2023
6.		Flexural Breaking Load	Cl. 7.3 & Annex D of IS 2095-1:2023
7.		Impact Resistance	Cl. 7.4 & Annex E of IS 2095-1:2023
8.		Surface Hardness	Cl. 7.5 & Annex F of IS 2095-1:2023
9.		Loading Capability	Cl. 7.6 of IS 2095-1:2023
10.		Water Absorption	Cl. 7.7 & Annex G of IS 2095-1:2023
11.		Fire Resistance	Cl. 7.8 of IS 2095-1:2023
12.		Finish	Cl. 7.9 of IS 2095-1:2023
13.		Packing and marking	Cl. 10 of IS 2095-1:2023
14.	Gypsum Plaster Boards- Specification - Part 2 Coated/Laminated Gypsum Plaster Boards	Materials	Cl. 4 of IS 2095-2:2022
15.		Manufacturing	Cl. 5 of IS 2095-2:2022
16.		Dimensions and Tolerances	Cl. 6.1 of IS 2095-2:2022
17.		Density	Cl. 6.2 of IS 2095-2:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
18.	Gypsum Plaster Boards- Specification - Part 2 Coated/Laminated Gypsum Plaster Boards	Flexural Breaking Load	Cl. 6.3 of IS 2095-2:2022
19.		Fire Resistance	Cl. 6.4 of IS 2095-2:2022
20.		Finish	Cl. 6.5 of IS 2095-2:2022
21.		Packing and marking	Cl. 9 of IS 2095-2:2022
22.	Gypsum Plaster Boards- Specification - Part 3 Reinforced Gypsum Plaster Boards and Ceiling Tiles	Materials	Cl. 4 of IS 2095-3:2022+ AMD1:2024
23.		Dimensions and Tolerances	Cl. 6.1 of IS 2095-3:2022+ AMD1:2024
24.		Density	Cl. 6.3 of IS 2095-3:2022+ AMD1:2024
25.		Flexural Breaking Load	Cl. 6.4 of IS 2095-3:2022+ AMD1:2024
26.		Impact Strength	Cl. 6.5 of IS 2095-3:2022+ AMD1:2024
27.		Water Absorption	Cl. 6.6 of IS 2095-3:2022+ AMD1:2024
28.		Jolting Test	Cl. 6.7 & Annex A of IS 2095-3:2022 + AMD1:2024
29.	Gypsum Plaster Boards- Specification - Part 3 Reinforced Gypsum Plaster Boards and Ceiling Tiles	Finish	Cl. 6.8 of IS 2095-3:2022+ AMD1:2024
30.		Packing and marking	Cl. 9 of IS 2095-3:2022 + AMD1:2024
31.	Glass Fibre Reinforced Gypsum Panels-Specification	Classification	Cl. 4 of IS 17400:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
32.	Glass Fibre Reinforced Gypsum Panels — Specification	Raw materials	Cl. 5 & Annex A of IS 17400:2021
33.		General	Cl. 7.1 of IS 17400:2021
34.		Visual Inspection, Dimension and Tolerance	Cl. 7.2, Annex B of IS 17400:2021
35.		GFRG panels	Cl. 7.3, Annex C,D,E,F,G of IS 17400:2021
36.		Product Coding	Cl. 10 of IS 17400:2021
37.		Marking	Cl. 11 of IS 17400:2021
38.		Gypsum Ceiling Tiles - Specification	Manufacturing
39.	Types of gypsum ceiling tiles		Cl. 5 of IS 18387:2023
40.	Materials		Cl. 6 of IS 18387:2023
41.	Dimensions and Tolerances		Cl. 7.1 of IS 18387:2023
42.	Tolerance on Shape		Cl. 7.2 of IS 18387:2023
43.	Density		Cl. 7.3 of IS 18387:2023
44.	Flexural Breaking Strength		Cl. 7.4 of IS 18387:2023
45.	Water Absorption		Cl. 7.5 of IS 18387:2023
46.	Sound Absorption		Cl. 7.6 of IS 18387:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
47.	Gypsum Ceiling Tiles - Specification	Thermal Conductivity	Cl. 7.7 of IS 18387:2023
48.		Humidified Deflection	Cl. 7.8, Annex B of IS 18387:2023
49.		Finish	Cl. 8 of IS 18387:2023
50.		Designation	Cl. 11 of IS 18387:2023
51.		Packing and marking	Cl. 12 of IS 18387:2023
52.	Asbestos cement building boards - specification	Colouring matter	Cl. 4 of IS 2098:1997
53.		Classification	Cl. 5 of IS 2098:1997
54.		General appearance and finish	Cl. 6 of IS 2098:1997
55.		Tolerances	Cl. 7 of IS 2098:1997
56.		Load bearing capacity test	Cl. 8.2 of IS 2098:1997
57.		Measurement of thickness	Cl. 8.3 of IS 2098:1997
58.		Water absorption test	Cl. 8.4 of IS 2098:1997
59.		Marking	Cl. 11 of IS 2098:1997
60.		Colouring matter	Cl. 4 of IS 2096:1992 + AMD1:1997
61.		Classification	Cl. 5 of IS 2096:1992 + AMD1:1997
62.		General appearance and finish	Cl. 6 of IS 2096:1992 + AMD1:1997

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Building, Infrastructure & Construction Materials			
63.	Asbestos cement flat sheets - specification	Dimensions and tolerances	Cl. 7 of IS 2096:1992 + AMD1:1997	
64.		Bending strength test	Cl. 8.2 of IS 2096:1992 + AMD1:1997	
65.		Thickness	Cl. 8.3 of IS 2096:1992 + AMD1:1997	
66.		Straightness and squareness of edges	Cl. 8.4 of IS 2096:1992 + AMD1:1997	
67.		Squareness of edges	Cl. 8.5 of IS 2096:1992 + AMD1:1997	
68.		Density	Cl. 8.6 of IS 2096:1992 + AMD1:1997	
69.		Marking	Cl. 11 of IS 2096:1992 + AMD1:1997	
70.		Silica - Asbestos - cement flat sheets - specification	Colouring matter	Cl. 4 of IS 13000:1990 + AMD1:1997
71.			Classification	Cl. 5 of IS 13000:1990 + AMD1:1997
72.	General appearance and finish		Cl. 6 of IS 13000:1990 + AMD1:1997	
73.	Dimensions and tolerances		Cl. 7 of IS 13000:1990 + AMD1:1997	
74.	Thickness		Cl. 8.2 of IS 13000:1990 + AMD1:1997	
75.	Straightness of edges		Cl. 8.3 of IS 13000:1990 + AMD1:1997	
76.	Squareness of edges		Cl. 8.4 of IS 13000:1990 + AMD1:1997	
77.	Bending stress	Cl. 8.5 of IS 13000:1990 + AMD1:1997		

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
78.	Silica - Asbestos - cement flat sheets - specification	Measurement of density	Cl. 8.6 of IS 13000:1990 + AMD1:1997
79.		Marking	Cl. 11 of IS 13000:1990 + AMD1:1997
80.	Shallow corrugated asbestos cement sheets - specification	Colouring matter	Cl. 4 of IS 13008:1990 + AMD1:1997
81.		Dimensions and tolerances	Cl. 5 of IS 13008:1990 + AMD1:1997
82.		Load bearing capacity	Cl. 6.1 of IS 13008:1990 + AMD1:1997
83.		Impermeability	Cl. 6.2 of IS 13008:1990 + AMD1:1997
84.		Finish	Cl. 7 of IS 13008:1990 + AMD1:1997
85.		Marking	Cl. 11 of IS 13008:1990 + AMD1:1997
86.		Corrugated and semi-Corrugated Asbestos Cement Sheets - specification	Colouring matter
87.	Dimensions and tolerances		Cl. 5 of IS 459:1992 + AMD1:2002 + AMD2:2003 + AMD3:2009+ AMD4:2016
88.	Load bearing capacity		Cl. 6.1 of IS 459:1992 + AMD1:2002 + AMD2:2003 + AMD3:2009+ AMD4:2016
89.	Impermeability		Cl. 6.2 of IS 459:1992 + AMD1:2002 + AMD2:2003 + AMD3:2009+ AMD4:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
90.	Corrugated and semi-Corrugated Asbestos Cement Sheets - specification	Frost cracking	Cl. 6.3 of IS 459:1992 + AMD1:2002 + AMD2:2003 + AMD3:2009+ AMD4:2016
91.		Density	Cl. 6.4 of IS 459:1992 + AMD1:2002 + AMD2:2003 + AMD3:2009+ AMD4:2016
92.		General appearance and finish	Cl. 7 of IS 459:1992 + AMD1:2002 + AMD2:2003 + AMD3:2009+ AMD4:2016
93.		Marking	Cl. 12 of IS 459:1992 + AMD1:2002 + AMD2:2003 + AMD3:2009+ AMD4:2016
94.	Specification for PVC asbestos floor tiles	Materials	Cl. 2 of IS 3461:1980 AMD1:1983 + AMD2:1990 + AMD3:1992+ AMD4:2002
95.		Dimensions and tolerances	Cl. 3 of IS 3461:1980 AMD1:1983 + AMD2:1990 + AMD3:1992 + AMD4:2002
96.		Colour and finish	Cl. 4 of IS 3461:1980 AMD1:1983 + AMD2:1990 + AMD3:1992 + AMD4:2002
97.		Physical requirements	Cl. 5 of IS 3461:1980 AMD1:1983 + AMD2:1990 + AMD3:1992 + AMD4:2002

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
98.	Specification for PVC asbestos floor tiles	Tests	Cl. 6 of IS 3461:1980 AMD1:1983 + AMD2:1990 + AMD3:1992 + AMD4:2002
99.		Packing	Cl. 7 of IS 3461:1980 AMD1:1983 + AMD2:1990 + AMD3:1992 + AMD4:2002
100.		Marking	Cl. 8 of IS 3461:1980 AMD1:1983 + AMD2:1990 + AMD3:1992 + AMD4:2002
101.	Specification for asbestos cement pressure pipes	Material	Cl. 2 of IS 9627:1980
102.		Classification	Cl. 3 of IS 9627:1980
103.		Dimensions and tolerances	Cl. 4 of IS 9627:1980
104.		Finish	Cl. 5 of IS 9627:1980
105.		Hydraulic Pressure -Tightness Test	Cl. 6.2 of IS 9627:1980
106.		Joints	Cl. 7 of IS 9627:1980
107.		Marking	Cl. 12 of IS 9627:1980
108.	Specification for asbestos cement cable conduits and throughs	Dimensions and tolerances	Cl. 3 of IS 8870:1978

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
109.	Specification for asbestos cement cable conduits and throughs	Manufacture and finish	Cl. 4 of IS 8870:1978
110.		Conduits	Cl. 5.1 of IS 8870:1978
111.		Throughs	Cl. 5.2 of IS 8870:1978
112.		Straightness and regularity of thickness and diameters	Cl. 6.1.1 of IS 8870:1978
113.		Flexural strength	Cl. 6.1.2 of IS 8870:1978
114.		Crushing strength	Cl. 6.1.3 of IS 8870:1978
115.		Water absorption	Cl. 6.1.4 of IS 8870:1978
116.		Impact Resistance	Cl. 6.1.5 & Appendix A of IS 8870:1978
117.		Flattening Resistance	Cl. 6.1.6 & Appendix B of IS 8870:1978
118.		Straightness and regularity of thickness	Cl. 6.2.1 of IS 8870:1978
119.		Flexural strength	Cl. 6.2.2 & Appendix C of IS 8870:1978
120.		Water absorption	Cl. 6.2.3 of IS 8870:1978

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Building, Infrastructure & Construction Materials			
121.	Specification for asbestos cement cable conduits and throughs	Marking	Cl. 8 of IS 8870:1978	
122.	Asbestos cement pressure pipes and joints - specification	Classification	Cl. 3.2 of IS 1592:2003 +AMD1:2017 +AMD2:2022	
123.		General appearance and finish	Cl. 3.3 of IS 1592:2003 +AMD1:2017 +AMD2:2022	
124.		Characteristics	Cl. 3.4 of IS 1592:2003 +AMD1:2017 +AMD2:2022	
125.		Marking	Cl. 3.6 of IS 1592:2003 +AMD1:2017 +AMD2:2022	
126.		Types and material	Cl. 4.1 of IS 1592:2003 +AMD1:2017 +AMD2:2022	
127.		Characteristics	Cl. 4.2 of IS 1592:2003 +AMD1:2017 +AMD2:2022	
128.		Marking	Cl. 4.3 of IS 1592:2003 +AMD1:2017 +AMD2:2022	
129.		Asbestos-cement pipes and fittings for sewerage and drainage - specification	General appearance and finish	Cl. 3.2 & 4.2 of IS 6908:1991 + AMD1: 2015
130.			Classification and Types	Cl. 3.3 & 4.3 of IS 6908:1991 + AMD1: 2015
131.			Dimensions and geometrical characteristics	Cl. 3.4 & 4.4 of IS 6908:1991 + AMD1: 2015

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
132.	Asbestos-cement pipes and fittings for sewerage and drainage - specification	Hydraulic Pressure Test	Cl. 3.5.1 & 4.5.1 of IS 6908:1991 + AMD1: 2015
133.		Transverse crushing strength	Cl. 3.5.2 & 4.5.2 of IS 6908:1991 + AMD1: 2015
134.		Longitudinal bending strength	Cl. 3.5.3 of IS 6908:1991 + AMD1: 2015
135.		Acid resistance test	Cl. 3.5.4 & 4.5.3 of IS 6908:1991 + AMD1: 2015
136.		Joints	Cl. 5 of IS 6908:1991 + AMD1: 2015
137.		Criteria for acceptance	Cl. 7 of IS 6908:1991 + AMD1: 2015
138.		Marking	Cl. 10 of IS 6908:1991 + AMD1: 2015
139.		Fibre cement flat sheets - specification	Classification
140.	Dimensional and Geometrical Characteristics		Cl. 5.1 & Annex B of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
141.	Bending Strength		Cl. 5.2.1 & Annex C of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
142.	Apparent Density		Cl. 5.2.2 & Annex C of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure & Construction Materials		
143.	Fibre cement flat sheets - specification	Other Characteristics	Cl. 5.2.3 of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
144.		Bending Strength	Cl. 6.1 & Annex D of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
145.		Water Impermeability	Cl. 6.2 & Annex E of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
146.		Frost Resistance	Cl. 6.3 & Annex F of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
147.		Warm Water	Cl. 6.4 & Annex G of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
148.		Soak-Dry	Cl. 6.5 & Annex H of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
149.		Heat-Rain	Cl. 6.6 & Annex J of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009
150.		Marking	Cl. 10 of IS 14862:2000 + AMD1: 2002 + AMD2: 2003 + AMD3: 2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1.	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	Marking	Cl. No. 4 of IS 14286:2010
2.		Visual inspection	Cl. No. 10.1 of IS 14286:2010
3.		Maximum power determination	Cl. No. 10.2 of IS 14286:2010
4.		Insulation test	Cl. No. 10.3 of IS 14286:2010
5.		Measurement of temperature coefficients	Cl. No. 10.4 of IS 14286:2010
6.		Measurement of NOCT	Cl. No. 10.5 of IS 14286:2010
7.		Performance at STC and NOCT	Cl. No. 10.6 of IS 14286:2010
8.		Performance at low irradiance	Cl. No. 10.7 of IS 14286:2010
9.		Outdoor exposure test	Cl. No. 10.8 of IS 14286:2010
10.		Hot-spot endurance test	Cl. No. 10.9 of IS 14286:2010
11.		UV preconditioning	Cl. No. 10.10 of IS 14286:2010
12.		Thermal cycling test	Cl. No. 10.11 of IS 14286:2010
13.		Humidity freeze test	Cl. No. 10.12 of IS 14286:2010
14.		Damp heat test	Cl. No. 10.13 of IS 14286:2010

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
15.	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	Robustness of termination test	Cl. No. 10.14 of IS 14286:2010
16.		Wet leakage current test	Cl. No. 10.15 of IS 14286:2010
17.		Mechanical load test	Cl. No. 10.16 of IS 14286:2010
18.		Hail test	Cl. No. 10.17 of IS 14286:2010
19.		Bypass diode thermal test	Cl. No. 10.18 of IS 14286:2010
20.		Marking	Cl. No. 4 of IEC 61215:2005
21.		Visual inspection	Cl. No. 10.1 of IEC 61215:2005
22.		Maximum power determination	Cl. No. 10.2 of IEC 61215:2005
23.		Insulation test	Cl. No. 10.3 of IEC 61215:2005
24.		Measurement of temperature coefficients	Cl. No. 10.4 of IEC 61215:2005
25.		Measurement of NOCT	Cl. No. 10.5 of IEC 61215:2005
26.		Performance at STC and NOCT	Cl. No. 10.6 of IEC 61215:2005
27.		Performance at low irradiance	Cl. No. 10.7 of IEC 61215:2005
28.	Outdoor exposure test	Cl. No. 10.8 of IEC 61215:2005	
29.	Hot-spot endurance test	Cl. No. 10.9 of IEC 61215:2005	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
30.	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	UV preconditioning	Cl. No. 10.10 of IEC 61215:2005
31.		Thermal cycling test	Cl. No. 10.11 of IEC 61215:2005
32.		Humidity freeze test	Cl. No. 10.12 of IEC 61215:2005
33.		Damp heat test	Cl. No. 10.13 of IEC 61215:2005
34.		Robustness of termination test	Cl. No. 10.14 of IEC 61215:2005
35.		Wet leakage current test	Cl. No. 10.15 of IEC 61215
36.		Mechanical load test	Cl. No. 10.16 of IEC 61215:2005
37.		Hail test	Cl. No. 10.17 of IEC 61215:2005
38.		Bypass diode thermal test	Cl. No. 10.18 of IEC 61215:2005
39.	Photovoltaic (PV) Module Safety Qualification Part 1 Requirements for Construction	Application classes	Cl. No. 3 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
40.		Construction requirements	Cl. No. 4 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
41.		Polymeric materials	Cl. No. 5 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
42.		Internal wiring and current-carrying parts	Cl. No. 6 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
43.		Connections	Cl. No. 7 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
44.		Bonding and grounding	Cl. No. 8 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
45.	Photovoltaic (PV) Module Safety Qualification Part 1 Requirements for Construction	Creepage and clearance distances	Cl. No. 9 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
46.		Field wiring compartments with covers	Cl. No. 10 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
47.		Marking	Cl. No. 11 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
48.		Requirements for supplied documents	Cl. No. 12 of IS/IEC 61730-1:2004+AMD1:2011+AMD2:2013
49.	Photovoltaic (PV) Module Safety Qualification Part 2 Requirements for Testing	Application classes	Cl. No. 3 of IS/IEC 61730-2:2004+AMD1:2011
50.		Visual inspection MST 01	Cl. No. 10.1 of IS/IEC 61730-2:2004+AMD1:2011
51.		Accessibility test MST 11	Cl. No. 10.2 of IS/IEC 61730-2:2004+AMD1:2011
52.		Cut susceptibility test MST 12	Cl. No. 10.3 of IS/IEC 61730-2:2004+AMD1:2011
53.		Ground continuity test MST 13	Cl. No. 10.4 of IS/IEC 61730-2:2004+AMD1:2011
54.		Impulse voltage test MST 14	Cl. No. 10.5 of IS/IEC 61730-2:2004+AMD1:2011
55.		Dielectric withstand test MST 16	Cl. No. 10.6 of IS/IEC 61730-2:2004+AMD1:2011
56.		Temperature test MST 21	Cl. No. 10.7 of IS/IEC 61730-2:2004+AMD1:2011

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
57.	Photovoltaic (PV) Module Safety Qualification Part 2 Requirements for Testing	Fire test MST 23	Cl. No. 10.8 of IS/IEC 61730-2:2004+AMD1:2011
58.		Reverse current overload Test MST 26	Cl. No. 10.9 of IS/IEC 61730-2:2004+AMD1:2011
59.		Module breakage test MST 32	Cl. No. 10.10 of IS/IEC 61730-2:2004+AMD1:2011
60.		Partial discharge-test MST 15	Cl. No. 11.1 of IS/IEC 61730-2:2004+AMD1:2011
61.		Conduit bending test MST 33	Cl. No. 11.2 of IS/IEC 61730-2:2004+AMD1:2011
62.		Terminal box knockout tests MST 44	Cl. No. 11.3 of IS/IEC 61730-2:2004+AMD1:2011
63.		Fire tests, spread-of-flame and burning-brand tests	Cl. No. Annex A of IS/IEC 61730-2:2004+AMD1:2011
64.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1: Test Requirements	Marking and documentation	Cl. No. 5 of IS 14286-1:2019
65.		Major visual defects	Cl. No. 8 of IS 14286-1:2019
66.		Marking and documentation	Cl. No. 5 of IEC 61215-1:2016
67.		Major visual defects	Cl. No. 8 of IEC 61215-1:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
68.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of IS 14286-1-1:2019
69.		Major visual defects	Cl. No. 8 of IS 14286-1-1:2019
70.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IS 14286-1-1:2019
71.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IS 14286-1-1:2019
72.		Insulation test (MQT 03)	Cl. No. 11.3 of IS 14286-1-1:2019
73.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IS 14286-1-1:2019
74.		Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 11.5 of IS 14286-1-1:2019
75.		Performance at STC (MQT 06.1) and NMOT (MQT 06.2)	Cl. No. 11.6 of IS 14286-1-1:2019
76.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IS 14286-1-1:2019
77.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IS 14286-1-1:2019
78.	Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IS 14286-1-1:2019	
79.	UV preconditioning test (MQT 10)	Cl. No. 11.10 of IS 14286-1-1:2019	

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Alpha Test House Services LLP

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
80.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Thermal cycling test (MQT 11)	Cl. No. 11.11 of IS 14286-1-1:2019
81.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IS 14286-1-1:2019
82.		Damp heat test (MQT 13)	Cl. No. 11.13 of IS 14286-1-1:2019
83.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IS 14286-1-1:2019
84.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IS 14286-1-1:2019
85.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IS 14286-1-1:2019
86.		Hail test (MQT 17)	Cl. No. 11.17 of IS 14286-1-1:2019
87.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IS 14286-1-1:2019
88.		Stabilization (MQT 19)	Cl. No. 11.19 of IS 14286-1-1:2019
89.		Marking and documentation	Cl. No. 5 of IEC 61215-1-1:2016
90.		Major visual defects	Cl. No. 8 of IEC 61215-1-1:2016
91.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IEC 61215-1-1:2016
92.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IEC 61215-1-1:2016
93.		Insulation test (MQT 03)	Cl. No. 11.3 of IEC 61215-1-1:2016
94.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IEC 61215-1-1:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
95.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 11.5 of IEC 61215-1-1:2016
96.		Performance at STC (MQT 06.1) and NMOT (MQT 06.2)	Cl. No. 11.6 of IEC 61215-1-1:2016
97.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IEC 61215-1-1:2016
98.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IEC 61215-1-1:2016
99.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IEC 61215-1-1:2016
100.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IEC 61215-1-1:2016
101.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IEC 61215-1-1:2016
102.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IEC 61215-1-1:2016
103.		Damp heat test (MQT 13)	Cl. No. 11.13 of IEC 61215-1-1:2016
104.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IEC 61215-1-1:2016
105.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IEC 61215-1-1:2016
106.	Static mechanical load test (MQT 16)	Cl. No. 11.16 of IEC 61215-1-1:2016	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
107.	Terrestrial Photovoltaic (PV) Modules - Design	Hail test (MQT 17)	Cl. No. 11.17 of IEC 61215-1-1:2016
108.	Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IEC 61215-1-1:2016
109.		Stabilization (MQT 19)	Cl. No. 11.19 of IEC 61215-1-1:2016
110.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of IS 14286-1-2:2019
111.		Major visual defects	Cl. No. 8 of IS 14286-1-2:2019
112.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IS 14286-1-2:2019
113.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IS 14286-1-2:2019
114.		Insulation test (MQT 03)	Cl. No. 11.3 of IS 14286-1-2:2019
115.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IS 14286-1-2:2019
116.		Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 11.5 of IS 14286-1-2:2019
117.		Performance at STC (MQT 06.1) and NMOT (MQT 06.2)	Cl. No. 11.6 of IS 14286-1-2:2019
118.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IS 14286-1-2:2019

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
119.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IS 14286-1-2:2019
120.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IS 14286-1-2:2019
121.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IS 14286-1-2:2019
122.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IS 14286-1-2:2019
123.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IS 14286-1-2:2019
124.		Damp heat test (MQT 13)	Cl. No. 11.13 of IS 14286-1-2:2019
125.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IS 14286-1-2:2019
126.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IS 14286-1-2:2019
127.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IS 14286-1-2:2019
128.		Hail test (MQT 17)	Cl. No. 11.17 of IS 14286-1-2:2019
129.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IS 14286-1-2:2019
130.		Stabilization (MQT 19)	Cl. No. 11.19 of IS 14286-1-2:2019
131.		Marking and documentation	Cl. No. 5 of IEC 61215-1-2:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
132.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Major visual defects	Cl. No. 8 of IEC 61215-1-2:2016
133.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IEC 61215-1-2:2016
134.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IEC 61215-1-2:2016
135.		Insulation test (MQT 03)	Cl. No. 11.3 of IEC 61215-1-2:2016
136.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IEC 61215-1-2:2016
137.		Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 11.5 of IEC 61215-1-2:2016
138.		Performance at STC (MQT 06.1) and NMOT (MQT 06.2)	Cl. No. 11.6 of IEC 61215-1-2:2016
139.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IEC 61215-1-2:2016
140.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IEC 61215-1-2:2016
141.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IEC 61215-1-2:2016
142.	UV preconditioning test (MQT 10)	Cl. No. 11.10 of IEC 61215-1-2:2016	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
143.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Thermal cycling test (MQT 11)	Cl. No. 11.11 of IEC 61215-1-2:2016
144.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IEC 61215-1-2:2016
145.		Damp heat test (MQT 13)	Cl. No. 11.13 of IEC 61215-1-2:2016
146.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IEC 61215-1-2:2016
147.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IEC 61215-1-2:2016
148.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IEC 61215-1-2:2016
149.		Hail test (MQT 17)	Cl. No. 11.17 of IEC 61215-1-2:2016
150.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IEC 61215-1-2:2016
151.		Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Stabilization (MQT 19)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
152.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of IS 14286-1-3:2019
153.		Major visual defects	Cl. No. 8 of IS 14286-1-3:2019
154.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IS 14286-1-3:2019
155.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IS 14286-1-3:2019
156.		Insulation test (MQT 03)	Cl. No. 11.3 of IS 14286-1-3:2019
157.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IS 14286-1-3:2019
158.		Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 11.5 of IS 14286-1-3:2019
159.		Performance at STC (MQT 06.1) and NMOT (MQT 06.2)	Cl. No. 11.6 of IS 14286-1-3:2019
160.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IS 14286-1-3:2019
161.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IS 14286-1-3:2019
162.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IS 14286-1-3:2019
163.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IS 14286-1-3:2019
164.	Thermal cycling test (MQT 11)	Cl. No. 11.11 of IS 14286-1-3:2019	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
165.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IS 14286-1-3:2019
166.		Damp heat test (MQT 13)	Cl. No. 11.13 of IS 14286-1-3:2019
167.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IS 14286-1-3:2019
168.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IS 14286-1-3:2019
169.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IS 14286-1-3:2019
170.		Hail test (MQT 17)	Cl. No. 11.17 of IS 14286-1-3:2019
171.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IS 14286-1-3:2019
172.		Stabilization (MQT 19)	Cl. No. 11.19 of IS 14286-1-3:2019
173.		Marking and documentation	Cl. No. 5 of IEC 61215-1-3:2016
174.		Major visual defects	Cl. No. 8 of IEC 61215-1-3:2016
175.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IEC 61215-1-3:2016
176.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IEC 61215-1-3:2016
177.		Insulation test (MQT 03)	Cl. No. 11.3 of IEC 61215-1-3:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
178.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IEC 61215-1-3:2016
179.		Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 11.5 of IEC 61215-1-3:2016
180.		Performance at STC (MQT 06.1) and NMOT (MQT 06.2)	Cl. No. 11.6 of IEC 61215-1-3:2016
181.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IEC 61215-1-3:2016
182.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IEC 61215-1-3:2016
183.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IEC 61215-1-3:2016
184.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IEC 61215-1-3:2016
185.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IEC 61215-1-3:2016
186.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IEC 61215-1-3:2016
187.		Damp heat test (MQT 13)	Cl. No. 11.13 of IEC 61215-1-3:2016
188.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IEC 61215-1-3:2016
189.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IEC 61215-1-3:2016



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
190.	Terrestrial Photovoltaic (PV) Modules - Design	Static mechanical load test (MQT 16)	Cl. No. 11.16 of IEC 61215-1-3:2016
191.	Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Hail test (MQT 17)	Cl. No. 11.17 of IEC 61215-1-3:2016
192.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IEC 61215-1-3:2016
193.		Stabilization (MQT 19)	Cl. No. 11.19 of IEC 61215-1-3:2016
194.		Marking and documentation	Cl. No. 5 of IS 14286-1-4:2019
195.		Major visual defects	Cl. No. 8 of IS 14286-1-4:2019
196.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IS 14286-1-4:2019
197.	Terrestrial Photovoltaic (PV) Modules - Design	Maximum power determination (MQT 02)	Cl. No. 11.2 of IS 14286-1-4:2019
198.	Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Insulation test (MQT 03)	Cl. No. 11.3 of IS 14286-1-4:2019
199.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IS 14286-1-4:2019
200.		Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 11.5 of IS 14286-1-4:2019
201.		Performance at STC (MQT 06.1) and NMOT (MQT 06.2)	Cl. No. 11.6 of IS 14286-1-4:2019
202.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IS 14286-1-4:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
203.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IS 14286-1-4:2019
204.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IS 14286-1-4:2019
205.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IS 14286-1-4:2019
206.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IS 14286-1-4:2019
207.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IS 14286-1-4:2019
208.		Damp heat test (MQT 13)	Cl. No. 11.13 of IS 14286-1-4:2019
209.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IS 14286-1-4:2019
210.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IS 14286-1-4:2019
211.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IS 14286-1-4:2019
212.		Hail test (MQT 17)	Cl. No. 11.17 of IS 14286-1-4:2019
213.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IS 14286-1-4:2019
214.	Stabilization (MQT 19)	Cl. No. 11.19 of IS 14286-1-4:2019	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
215.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of IEC 61215-1-4:2016
216.		Major visual defects	Cl. No. 8 of IEC 61215-1-4:2016
217.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IEC 61215-1-4:2016
218.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IEC 61215-1-4:2016
219.		Insulation test (MQT 03)	Cl. No. 11.3 of IEC 61215-1-4:2016
220.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IEC 61215-1-4:2016
221.		Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 11.5 of IEC 61215-1-4:2016
222.		Performance at STC (MQT 06.1) and NMOT (MQT 06.2)	Cl. No. 11.6 of IEC 61215-1-4:2016
223.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IEC 61215-1-4:2016
224.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IEC 61215-1-4:2016
225.	Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IEC 61215-1-4:2016	
226.	UV preconditioning test (MQT 10)	Cl. No. 11.10 of IEC 61215-1-4:2016	

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Solar Panels			
227.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Thermal cycling test (MQT 11)	Cl. No. 11.11 of IEC 61215-1-4:2016	
228.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IEC 61215-1-4:2016	
229.		Damp heat test (MQT 13)	Cl. No. 11.13 of IEC 61215-1-4:2016	
230.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IEC 61215-1-4:2016	
231.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IEC 61215-1-4:2016	
232.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IEC 61215-1-4:2016	
233.		Hail test (MQT 17)	Cl. No. 11.17 of IEC 61215-1-4:2016	
234.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IEC 61215-1-4:2016	
235.		Stabilization (MQT 19)	Cl. No. 11.19 of IEC 61215-1-4:2016	
236.		Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Visual Inspection (MQT 01)	Cl. No. 4.1 of IS 14286-2:2019
237.			Maximum power determination (MQT 02)	Cl. No. 4.2 of IS 14286-2:2019
238.	Insulation test (MQT 03)		Cl. No. 4.3 of IS 14286-2:2019	
239.	Measurement of temperature coefficients (MQT 04)		Cl. No. 4.4 of IS 14286-2:2019	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
240.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 4.5 of IS 14286-2:2019
241.		Performance at STC and NMOT (MQT 06)	Cl. No. 4.6 of IS 14286-2:2019
242.		Performance at low irradiance (MQT 07)	Cl. No. 4.7 of IS 14286-2:2019
243.		Outdoor exposure test (MQT 08)	Cl. No. 4.8 of IS 14286-2:2019
244.		Hot-spot endurance test (MQT 09)	Cl. No. 4.9 of IS 14286-2:2019
245.		UV preconditioning test (MQT 10)	Cl. No. 4.10 of IS 14286-2:2019
246.		Thermal cycling test (MQT 11)	Cl. No. 4.11 of IS 14286-2:2019
247.		Humidity-freeze test (MQT 12)	Cl. No. 4.12 of IS 14286-2:2019
248.		Damp heat test (MQT 13)	Cl. No. 4.13 of IS 14286-2:2019
249.		Robustness of termination test (MQT 14)	Cl. No. 4.14 of IS 14286-2:2019
250.		Wet leakage current test (MQT 15)	Cl. No. 4.15 of IS 14286-2:2019
251.		Static mechanical load test (MQT 16)	Cl. No. 4.16 of IS 14286-2:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
252.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Hail test (MQT 17)	Cl. No. 4.17 of IS 14286-2:2019
253.		Bypass diode thermal test (MQT 18)	Cl. No. 4.18 of IS 14286-2:2019
254.		Stabilization (MQT 19)	Cl. No. 4.19 of IS 14286-2:2019
255.		Visual Inspection (MQT 01)	Cl. No. 4.1 of IEC 61215-2:2019
256.		Maximum power determination (MQT 02)	Cl. No. 4.2 of IEC 61215-2:2019
257.		Insulation test (MQT 03)	Cl. No. 4.3 of IEC 61215-2:2019
258.		Measurement of temperature coefficients (MQT 04)	Cl. No. 4.4 of IEC 61215-2:2019
259.		Measurement of nominal module operating temperature (NMOT) (MQT 05)	Cl. No. 4.5 of IEC 61215-2:2019
260.		Performance at STC and NMOT (MQT 06)	Cl. No. 4.6 of IEC 61215-2:2019
261.		Performance at low irradiance (MQT 07)	Cl. No. 4.7 of IEC 61215-2:2019
262.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Outdoor exposure test (MQT 08)	Cl. No. 4.8 of IEC 61215-2:2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
263.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Hot-spot endurance test (MQT 09)	Cl. No. 4.9 of IEC 61215-2:2019
264.		UV preconditioning test (MQT 10)	Cl. No. 4.10 of IEC 61215-2:2019
265.		Thermal cycling test (MQT 11)	Cl. No. 4.11 of IEC 61215-2:2019
266.		Humidity-freeze test (MQT 12)	Cl. No. 4.12 of IEC 61215-2:2019
267.		Damp heat test (MQT 13)	Cl. No. 4.13 of IEC 61215-2:2019
268.		Robustness of termination test (MQT 14)	Cl. No. 4.14 of IEC 61215-2:2019
269.		Wet leakage current test (MQT 15)	Cl. No. 4.15 of IEC 61215-2:2019
270.		Static mechanical load test (MQT 16)	Cl. No. 4.16 of IEC 61215-2:2019
271.		Hail test (MQT 17)	Cl. No. 4.17 of IEC 61215-2:2019
272.		Bypass diode thermal test (MQT 18)	Cl. No. 4.18 of IEC 61215-2:2019
273.	Stabilization (MQT 19)	Cl. No. 4.19 of IEC 61215-2:2019	
274.	Photovoltaic (PV) Module Safety Qualification Part 1: Requirements for Construction	Classification, applications and intended use	Cl. No. 4 of IS/IEC 61730-1:2016



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
275.	Photovoltaic (PV) Module Safety Qualification Part 1: Requirements for Construction	Requirements for design and construction	Cl. No. 5 of IS/IEC 61730-1:2016
276.		Marking and documentation	Cl. No. 5.2 of IS/IEC 61730-1:2016
277.		Electrical components and insulation	Cl. No. 5.3 of IS/IEC 61730-1:2016
278.		Mechanical and electromechanical connections	Cl. No. 5.4 of IS/IEC 61730-1:2016
279.		Materials	Cl. No. 5.5 of IS/IEC 61730-1:2016
280.		Protection against electric shock	Cl. No. 5.6 of IS/IEC 61730-1:2016
281.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Visual inspection MST 01	Cl. No. 10.2 of IS/IEC 61730-2:2016
282.		Performance at STC MST 02	Cl. No. 10.3 of IS/IEC 61730-2:2016
283.		Maximum power determination MST 03	Cl. No. 10.4 of IS/IEC 61730-2:2016
284.		Insulation thickness test MST 04	Cl. No. 10.5 of IS/IEC 61730-2:2016
285.		Durability of markings MST 05	Cl. No. 10.6 of IS/IEC 61730-2:2016
286.		Sharp edge test MST 06	Cl. No. 10.7 of IS/IEC 61730-2:2016
287.		Bypass diode functionality test MST 07	Cl. No. 10.8 of IS/IEC 61730-2:2016
288.		Accessibility test MST 11	Cl. No. 10.9 of IS/IEC 61730-2:2016
289.		Cut susceptibility test MST 12	Cl. No. 10.10 of IS/IEC 61730-2:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
290.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Continuity test of equipotential bonding MST 13	Cl. No. 10.11 of IS/IEC 61730-2:2016
291.		Impulse voltage test MST 14	Cl. No. 10.12 of IS/IEC 61730-2:2016
292.		Insulation test MST 16	Cl. No. 10.13 of IS/IEC 61730-2:2016
293.		Wet leakage current test MST 17	Cl. No. 10.14 of IS/IEC 61730-2:2016
294.		Temperature test MST 21	Cl. No. 10.15 of IS/IEC 61730-2:2016
295.		Hot-spot endurance test MST 22	Cl. No. 10.16 of IS/IEC 61730-2:2016
296.		Fire test MST 23	Cl. No. 10.17 of IS/IEC 61730-2:2016
297.		Ignitability test MST 24	Cl. No. 10.18 of IS/IEC 61730-2:2016
298.		Bypass diode thermal test MST 25	Cl. No. 10.19 of IS/IEC 61730-2:2016
299.		Reverse current overload Test MST 26	Cl. No. 10.20 of IS/IEC 61730-2:2016
300.		Module breakage test MST 32	Cl. No. 10.21 of IS/IEC 61730-2:2016
301.		Screw connections test MST 33	Cl. No. 10.22 of IS/IEC 61730-2:2016
302.		Static mechanical load test MST 34	Cl. No. 10.23 of IS/IEC 61730-2:2016
303.		Peel test MST 35	Cl. No. 10.24 of IS/IEC 61730-2:2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
304.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Lap shear strength test MST 36	Cl. No. 10.25 of IS/IEC 61730-2:2016
305.		Materials creep test MST 37	Cl. No. 10.26 of IS/IEC 61730-2:2016
306.		Robustness of terminations test MST 42	Cl. No. 10.27 of IS/IEC 61730-2:2016
307.		Thermal cycling test MST 51	Cl. No. 10.28 of IS/IEC 61730-2:2016
308.		Humidity freeze test MST 52	Cl. No. 10.29 of IS/IEC 61730-2:2016
309.		Damp heat test MST 53	Cl. No. 10.30 of IS/IEC 61730-2:2016
310.		UV test MST 54	Cl. No. 10.31 of IS/IEC 61730-2:2016
311.		Cold conditioning MST 55	Cl. No. 10.32 of IS/IEC 61730-2:2016
312.		Dry heat conditioning MST 56	Cl. No. 10.33 of IS/IEC 61730-2:2016
313.		Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1: Test Requirements	Marking and documentation
314.	Major visual defects		Cl. No. 8 of IS 14286-1:2023
315.	Marking and documentation		Cl. No. 5 of IS 61512-1:2021
316.	Major visual defects		Cl. No. 8 of IS 61215-1:2021
317.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type	Marking and documentation	Cl. No. 5 of IS 14286-1-1:2023
318.		Major visual defects	Cl. No. 8 of IS 14286-1-1:2023
319.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IS 14286-1-1:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
320.	Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Maximum power determination (MQT 02)	Cl. No. 11.2 of IS 14286-1-1:2023
321.		Insulation test (MQT 03)	Cl. No. 11.3 of IS 14286-1-1:2023
322.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IS 14286-1-1:2023
323.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of IS 14286-1-1:2023
324.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IS 14286-1-1:2023
325.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IS 14286-1-1:2023
326.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IS 14286-1-1:2023
327.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IS 14286-1-1:2023
328.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IS 14286-1-1:2023
329.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IS 14286-1-1:2023
330.		Damp heat test (MQT 13)	Cl. No. 11.13 of IS 14286-1-1:2023
331.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IS 14286-1-1:2023
332.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IS 14286-1-1:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
333.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Static mechanical load test (MQT 16)	Cl. No. 11.16 of IS 14286-1-1:2023
334.		Hail test (MQT 17)	Cl. No. 11.17 of IS 14286-1-1:2023
335.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IS 14286-1-1:2023
336.		Stabilization (MQT 19)	Cl. No. 11.19 of IS 14286-1-1:2023
337.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of IS 14286-1-1:2023
338.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of IS 14286-1-1:2023
339.		Bending test (MQT 22)	Cl. No. 11.22 of IS 14286-1-1:2023
340.		Marking and documentation	Cl. No. 5 of IEC 61215-1-1:2021
341.		Major visual defects	Cl. No. 8 of IEC 61215-1-1:2021
342.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IEC 61215-1-1:2021
343.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IEC 61215-1-1:2021
344.		Insulation test (MQT 03)	Cl. No. 11.3 of IEC 61215-1-1:2021
345.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IEC 61215-1-1:2021
346.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of IEC 61215-1-1:2021
347.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IEC 61215-1-1:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
348.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IEC 61215-1-1:2021
349.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IEC 61215-1-1:2021
350.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IEC 61215-1-1:2021
351.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IEC 61215-1-1:2021
352.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IEC 61215-1-1:2021
353.		Damp heat test (MQT 13)	Cl. No. 11.13 of IEC 61215-1-1:2021
354.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IEC 61215-1-1:2021
355.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IEC 61215-1-1:2021
356.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IEC 61215-1-1:2021
357.		Hail test (MQT 17)	Cl. No. 11.17 of IEC 61215-1-1:2021
358.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IEC 61215-1-1:2021
359.		Stabilization (MQT 19)	Cl. No. 11.19 of IEC 61215-1-1:2021
360.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of IEC 61215-1-1:2021



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
361.	Terrestrial Photovoltaic (PV) Modules - Design	Potential induced degradation test (MQT 21)	Cl. No. 11.21 of IEC 61215-1-1:2021
362.	Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Bending test (MQT 22)	Cl. No. 11.22 of IEC 61215-1-1:2021
363.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of IS 14286-1-2:2023
364.		Major visual defects	Cl. No. 8 of IS 14286-1-2:2023
365.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IS 14286-1-2:2023
366.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IS 14286-1-2:2023
367.		Insulation test (MQT 03)	Cl. No. 11.3 of IS 14286-1-2:2023
368.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IS 14286-1-2:2023
369.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of IS 14286-1-2:2023
370.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IS 14286-1-2:2023
371.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IS 14286-1-2:2023
372.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IS 14286-1-2:2023

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
373.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	UV preconditioning test (MQT 10)	Cl. No. 11.10 of IS 14286-1-2:2023
374.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IS 14286-1-2:2023
375.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IS 14286-1-2:2023
376.		Damp heat test (MQT 13)	Cl. No. 11.13 of IS 14286-1-2:2023
377.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IS 14286-1-2:2023
378.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IS 14286-1-2:2023
379.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IS 14286-1-2:2023
380.		Hail test (MQT 17)	Cl. No. 11.17 of IS 14286-1-2:2023
381.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IS 14286-1-2:2023
382.		Stabilization (MQT 19)	Cl. No. 11.19 of IS 14286-1-2:2023
383.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of IS 14286-1-2:2023
384.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of IS 14286-1-2:2023
385.		Bending test (MQT 22)	Cl. No. 11.22 of IS 14286-1-2:2023
386.		Marking and documentation	Cl. No. 5 of IEC 61215-1-2:2021+AMD1:2022

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Alpha Test House Services LLP

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
387.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Major visual defects	Cl. No. 8 of IEC 61215-1-2:2021+AMD1:2022
388.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IEC 61215-1-2:2021+AMD1:2022
389.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IEC 61215-1-2:2021+AMD1:2022
390.		Insulation test (MQT 03)	Cl. No. 11.3 of IEC 61215-1-2:2021+AMD1:2022
391.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IEC 61215-1-2:2021+AMD1:2022
392.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of IEC 61215-1-2:2021+AMD1:2022
393.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IEC 61215-1-2:2021+AMD1:2022
394.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IEC 61215-1-2:2021+AMD1:2022
395.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IEC 61215-1-2:2021+AMD1:2022
396.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IEC 61215-1-2:2021+AMD1:2022
397.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IEC 61215-1-2:2021+AMD1:2022
398.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IEC 61215-1-2:2021+AMD1:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
399.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Damp heat test (MQT 13)	Cl. No. 11.13 of IEC 61215-1-2:2021+AMD1:2022
400.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IEC 61215-1-2:2021+AMD1:2022
401.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IEC 61215-1-2:2021+AMD1:2022
402.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IEC 61215-1-2:2021+AMD1:2022
403.		Hail test (MQT 17)	Cl. No. 11.17 of IEC 61215-1-2:2021+AMD1:2022
404.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IEC 61215-1-2:2021+AMD1:2022
405.		Stabilization (MQT 19)	Cl. No. 11.19 of IEC 61215-1-2:2021+AMD1:2022
406.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of IEC 61215-1-2:2021+AMD1:2022
407.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of IEC 61215-1-2:2021+AMD1:2022
408.		Bending test (MQT 22)	Cl. No. 11.22 of IEC 61215-1-2:2021+AMD1:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
409.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of IS 14286-1-3:2023
410.		Major visual defects	Cl. No. 8 of IS 14286-1-3:2023
411.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IS 14286-1-3:2023
412.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IS 14286-1-3:2023
413.		Insulation test (MQT 03)	Cl. No. 11.3 of IS 14286-1-3:2023
414.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IS 14286-1-3:2023
415.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of IS 14286-1-3:2023
416.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IS 14286-1-3:2023
417.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IS 14286-1-3:2023
418.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IS 14286-1-3:2023
419.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IS 14286-1-3:2023
420.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IS 14286-1-3:2023
421.	Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IS 14286-1-3:2023	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
422.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Damp heat test (MQT 13)	Cl. No. 11.13 of IS 14286-1-3:2023
423.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IS 14286-1-3:2023
424.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IS 14286-1-3:2023
425.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IS 14286-1-3:2023
426.		Hail test (MQT 17)	Cl. No. 11.17 of IS 14286-1-3:2023
427.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IS 14286-1-3:2023
428.		Stabilization (MQT 19)	Cl. No. 11.19 of IS 14286-1-3:2023
429.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of IS 14286-1-3:2023
430.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of IS 14286-1-3:2023
431.		Bending test (MQT 22)	Cl. No. 11.22 of IS 14286-1-3:2023
432.		Marking and documentation	Cl. No. 5 of IEC 61215-1-3:2021+AMD1:2022
433.		Major visual defects	Cl. No. 8 of IEC 61215-1-3:2021+AMD1:2022
434.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IEC 61215-1-3:2021+AMD1:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
435.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Maximum power determination (MQT 02)	Cl. No. 11.2 of IEC 61215-1-3:2021+AMD1:2022
436.		Insulation test (MQT 03)	Cl. No. 11.3 of IEC 61215-1-3:2021+AMD1:2022
437.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IEC 61215-1-3:2021+AMD1:2022
438.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of IEC 61215-1-3:2021+AMD1:2022
439.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IEC 61215-1-3:2021+AMD1:2022
440.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IEC 61215-1-3:2021+AMD1:2022
441.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IEC 61215-1-3:2021+AMD1:2022
442.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IEC 61215-1-3:2021+AMD1:2022
443.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IEC 61215-1-3:2021+AMD1:2022
444.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IEC 61215-1-3:2021+AMD1:2022
445.		Damp heat test (MQT 13)	Cl. No. 11.13 of IEC 61215-1-3:2021+AMD1:2022
446.	Robustness of termination test (MQT 14)	Cl. No. 11.14 of IEC 61215-1-3:2021+AMD1:2022	

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Solar Panels			
447.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Wet leakage current test (MQT 15)	Cl. No. 11.15 of IEC 61215-1-3:2021+AMD1:2022	
448.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IEC 61215-1-3:2021+AMD1:2022	
449.		Hail test (MQT 17)	Cl. No. 11.17 of IEC 61215-1-3:2021+AMD1:2022	
450.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IEC 61215-1-3:2021+AMD1:2022	
451.		Stabilization (MQT 19)	Cl. No. 11.19 of IEC 61215-1-3:2021+AMD1:2022	
452.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of IEC 61215-1-3:2021+AMD1:2022	
453.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of IEC 61215-1-3:2021+AMD1:2022	
454.		Bending test (MQT 22)	Cl. No. 11.22 of IEC 61215-1-3:2021+AMD1:2022	
455.		Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of IS 14286-1-4:2023
456.			Major visual defects	Cl. No. 8 of IS 14286-1-4:2023
457.	Visual Inspection (MQT 01)		Cl. No. 11.1 of IS 14286-1-4:2023	
458.	Maximum power determination (MQT 02)		Cl. No. 11.2 of IS 14286-1-4:2023	
459.	Insulation test (MQT 03)		Cl. No. 11.3 of IS 14286-1-4:2023	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
460.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IS 14286-1-4:2023
461.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of IS 14286-1-4:2023
462.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IS 14286-1-4:2023
463.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IS 14286-1-4:2023
464.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IS 14286-1-4:2023
465.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IS 14286-1-4:2023
466.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IS 14286-1-4:2023
467.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IS 14286-1-4:2023
468.		Damp heat test (MQT 13)	Cl. No. 11.13 of IS 14286-1-4:2023
469.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IS 14286-1-4:2023
470.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IS 14286-1-4:2023
471.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IS 14286-1-4:2023
472.		Hail test (MQT 17)	Cl. No. 11.17 of IS 14286-1-4:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
473.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu (In, Ga) (S, Se)2 based photovoltaic (PV) modules	Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IS 14286-1-4:2023
474.		Stabilization (MQT 19)	Cl. No. 11.19 of IS 14286-1-4:2023
475.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of IS 14286-1-4:2023
476.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of IS 14286-1-4:2023
477.		Bending test (MQT 22)	Cl. No. 11.22 of IS 14286-1-4:2023
478.		Marking and documentation	Cl. No. 5 of IEC 61215-1-4:2021+AMD1:2022
479.		Major visual defects	Cl. No. 8 of IEC 61215-1-4:2021+AMD1:2022
480.		Visual Inspection (MQT 01)	Cl. No. 11.1 of IEC 61215-1-4:2021+AMD1:2022
481.		Maximum power determination (MQT 02)	Cl. No. 11.2 of IEC 61215-1-4:2021+AMD1:2022
482.		Insulation test (MQT 03)	Cl. No. 11.3 of IEC 61215-1-4:2021+AMD1:2022
483.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of IEC 61215-1-4:2021+AMD1:2022
484.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of IEC 61215-1-4:2021+AMD1:2022



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
485.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu (In,Ga)(S,Se)2 based photovoltaic (PV) modules	Performance at low irradiance (MQT 07)	Cl. No. 11.7 of IEC 61215-1-4:2021+AMD1:2022
486.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of IEC 61215-1-4:2021+AMD1:2022
487.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of IEC 61215-1-4:2021+AMD1:2022
488.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of IEC 61215-1-4:2021+AMD1:2022
489.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of IEC 61215-1-4:2021+AMD1:2022
490.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of IEC 61215-1-4:2021+AMD1:2022
491.		Damp heat test (MQT 13)	Cl. No. 11.13 of IEC 61215-1-4:2021+AMD1:2022
492.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of IEC 61215-1-4:2021+AMD1:2022
493.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of IEC 61215-1-4:2021+AMD1:2022
494.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of IEC 61215-1-4:2021+AMD1:2022
495.		Hail test (MQT 17)	Cl. No. 11.17 of IEC 61215-1-4:2021+AMD1:2022
496.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of IEC 61215-1-4:2021+AMD1:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
497.	Terrestrial Photovoltaic (PV) Modules - Design	Stabilization (MQT 19)	Cl. No. 11.19 of IEC 61215-1-4:2021+AMD1:2022
498.	Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of IEC 61215-1-4:2021+AMD1:2022
499.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of IEC 61215-1-4:2021+AMD1:2022
500.		Bending test (MQT 22)	Cl. No. 11.22 of IEC 61215-1-4:2021+AMD1:2022
501.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Visual Inspection (MQT 01)	Cl. No. 4.1 of IS 14286-2:2023
502.		Maximum power determination (MQT 02)	Cl. No. 4.2 of IS 14286-2:2023
503.		Insulation test (MQT 03)	Cl. No. 4.3 of IS 14286-2:2023
504.		Measurement of temperature coefficients (MQT 04)	Cl. No. 4.4 of IS 14286-2:2023
505.		Performance at STC and NMOT (MQT 06)	Cl. No. 4.6 of IS 14286-2:2023
506.		Performance at low irradiance (MQT 07)	Cl. No. 4.7 of IS 14286-2:2023
507.		Outdoor exposure test (MQT 08)	Cl. No. 4.8 of IS 14286-2:2023
508.		Hot-spot endurance test (MQT 09)	Cl. No. 4.9 of IS 14286-2:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
509.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	UV preconditioning test (MQT 10)	Cl. No. 4.10 of IS 14286-2:2023
510.		Thermal cycling test (MQT 11)	Cl. No. 4.11 of IS 14286-2:2023
511.		Humidity-freeze test (MQT 12)	Cl. No. 4.12 of IS 14286-2:2023
512.		Damp heat test (MQT 13)	Cl. No. 4.13 of IS 14286-2:2023
513.		Robustness of termination test (MQT 14)	Cl. No. 4.14 of IS 14286-2:2023
514.		Wet leakage current test (MQT 15)	Cl. No. 4.15 of IS 14286-2:2023
515.		Static mechanical load test (MQT 16)	Cl. No. 4.16 of IS 14286-2:2023
516.		Hail test (MQT 17)	Cl. No. 4.17 of IS 14286-2:2023
517.		Bypass diode thermal test (MQT 18)	Cl. No. 4.18 of IS 14286-2:2023
518.		Stabilization (MQT 19)	Cl. No. 4.19 of IS 14286-2:2023
519.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 4.20 of IS 14286-2:2023
520.		Potential induced degradation test (MQT 21)	Cl. No. 4.21 of IS 14286-2:2023
521.		Bending test (MQT 22)	Cl. No. 4.22 of IS 14286-2:2023
522.		Visual Inspection (MQT 01)	Cl. No. 4.1 of IEC 61215-2:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
523.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Maximum power determination (MQT 02)	Cl. No. 4.2 of IEC 61215-2:2021
524.		Insulation test (MQT 03)	Cl. No. 4.3 of IEC 61215-2:2021
525.		Measurement of temperature coefficients (MQT 04)	Cl. No. 4.4 of IEC 61215-2:2021
526.		Performance at STC and NMOT (MQT 06)	Cl. No. 4.6 of IEC 61215-2:2021
527.		Performance at low irradiance (MQT 07)	Cl. No. 4.7 of IEC 61215-2:2021
528.		Outdoor exposure test (MQT 08)	Cl. No. 4.8 of IEC 61215-2:2021
529.		Hot-spot endurance test (MQT 09)	Cl. No. 4.9 of IEC 61215-2:2021
530.		UV preconditioning test (MQT 10)	Cl. No. 4.10 of IEC 61215-2:2021
531.		Thermal cycling test (MQT 11)	Cl. No. 4.11 of IEC 61215-2:2021
532.		Humidity-freeze test (MQT 12)	Cl. No. 4.12 of IEC 61215-2:2021
533.		Damp heat test (MQT 13)	Cl. No. 4.13 of IEC 61215-2:2021
534.		Robustness of termination test (MQT 14)	Cl. No. 4.14 of IEC 61215-2:2021
535.		Wet leakage current test (MQT 15)	Cl. No. 4.15 of IEC 61215-2:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
536.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Static mechanical load test (MQT 16)	Cl. No. 4.16 of IEC 61215-2:2021
537.		Hail test (MQT 17)	Cl. No. 4.17 of IEC 61215-2:2021
538.		Bypass diode thermal test (MQT 18)	Cl. No. 4.18 of IEC 61215-2:2021
539.		Stabilization (MQT 19)	Cl. No. 4.19 of IEC 61215-2:2021
540.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 4.20 of IEC 61215-2:2021
541.		Potential induced degradation test (MQT 21)	Cl. No. 4.21 of IEC 61215-2:2021
542.		Bending test (MQT 22)	Cl. No. 4.22 of IEC 61215-2:2021
543.	Photovoltaic (PV) Module Safety Qualification Part 1: Requirements for Construction	Classification, applications and intended use	Cl. No. 5 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
544.		Marking and documentation	Cl. No. 6.2 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
545.		Internal wiring	Cl. No. 6.3.2 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
546.		External wiring and cables	Cl. No. 6.3.3 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
547.		Module over current protection rating	Cl. No. 6.3.4 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
548.		Connectors	Cl. No. 6.3.5 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
549.		Junction Boxes	Cl. No. 6.3.6 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
550.		Front sheets and back sheets	Cl. No. 6.3.7 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
551.	Photovoltaic (PV) Module Safety Qualification Part 1: Requirements for Construction	Insulation barriers	Cl. No. 6.3.8 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
552.		Electrical connections	Cl. No. 6.3.9 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
553.		Encapsulants	Cl. No. 6.3.10 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
554.		Bypass Diodes	Cl. No. 6.3.11 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
555.		Mechanical and electromechanical connections	Cl. No. 6.4 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
556.		Materials	Cl. No. 6.5 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023
557.		Protection against electric shock	Cl. No. 6.6 of IEC 61730-1:2023; IS/IEC 61730-1 : 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
558.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Visual inspection MST 01	Cl. No. 10.2 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
559.		Performance at STC MST 02	Cl. No. 10.3 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
560.		Maximum power determination MST 03	Cl. No. 10.4 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
561.		Insulation thickness test MST 04	Cl. No. 10.5 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
562.		Durability of markings MST 05	Cl. No. 10.6 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
563.		Sharp edge test MST 06	Cl. No. 10.7 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
564.		Bypass diode functionality test MST 07	Cl. No. 10.8 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
565.		Accessibility test MST 11	Cl. No. 10.9 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
566.		Cut susceptibility test MST 12	Cl. No. 10.10 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
567.	Photovoltaic (PV) Module Safety Qualification	Continuity test of equipotential bonding MST 13	Cl. No. 10.11 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
568.	Part 2: Requirements for testing	Impulse voltage test MST 14	Cl. No. 10.12 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
569.		Insulation test MST 16	Cl. No. 10.13 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
570.		Wet leakage current test MST 17	Cl. No. 10.14 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
571.		Hot-spot endurance test MST 22	Cl. No. 10.16 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
572.		Fire test MST 23	Cl. No. 10.17 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
573.		Ignitability test MST 24	Cl. No. 10.18 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
574.		Bypass diode thermal test MST 25	Cl. No. 10.19 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
575.		Reverse current overload Test MST 26	Cl. No. 10.20 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
576.		Module breakage test MST 32	Cl. No. 10.21 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
577.		Screw connections test MST 33	Cl. No. 10.22 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
578.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Static mechanical load test MST 34	Cl. No. 10.23 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
579.		Peel test MST 35	Cl. No. 10.24 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
580.		Lap shear strength test MST 36	Cl. No. 10.25 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
581.		Materials creep test MST 37	Cl. No. 10.26 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
582.		Robustness of terminations test MST 42	Cl. No. 10.27 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
583.		Thermal cycling test MST 51	Cl. No. 10.28 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
584.		Humidity freeze test MST 52	Cl. No. 10.29 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
585.		Damp heat test MST 53	Cl. No. 10.30 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
586.		UV test MST 54	Cl. No. 10.31 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
587.		Cold conditioning test MST 55	Cl. No. 10.32 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
588.		Dry heat conditioning test MST 56	Cl. No. 10.33 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
589.		Evaluation of insulation coordination MST 57	Cl. No. 10.34 of IEC 61730-2:2023; IS/IEC 61730-2 : 2023
590.		Measurement of Photovoltaic Current-Voltage Characteristics	IS 12762-1:2024
591.	Photovoltaic Devices Part 1 Measurement of Photovoltaic Current-Voltage Characteristics	Measurement of Photovoltaic Current-Voltage Characteristics	IEC 60904-1:2020
592.		Measurement of Current-Voltage Characteristics of Multi-junction PV devices	IS 12762-1-1:2020
593.		Measurement of Current-Voltage Characteristics of Multi-junction PV devices	IEC 60904-1-1:2017
594.		Measurement of Current-voltage Characteristic of Bi-facial photovoltaic (PV) devices	IS 12762-1-2:2020
595.	Photovoltaic Devices Part 1 Measurement of Current-voltage Characteristics Section 2 Bi-facial photovoltaic (PV) devices	Measurement of Current-voltage Characteristic of Bi-facial photovoltaic (PV) devices	IEC TS 60904-1-2:2019
596.		Measurement of Current-voltage Characteristic of Bi-facial photovoltaic (PV) devices	IEC TS 60904-1-2:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
597.	Photovoltaic Devices Part 13	Electroluminescence of Photovoltaic Modules	IS 12762-13:2020
598.	Electroluminescence of Photovoltaic Modules	Electroluminescence of Photovoltaic Modules	IEC TS 60904-13:2018
599.	Photovoltaic Devices Part 14: Guidelines For Production Line Measurements Of Single-Junction PV Module Maximum Power Output And Reporting At Standard Test Conditions	Single-Junction PV Module Maximum Power Output and Reporting at Standard Test Conditions	IS 12762-14:2023
600.	Photovoltaic Devices Part 14: Guidelines For Production Line Measurements Of Single-Junction PV Module Maximum Power Output And Reporting At Standard Test Conditions	Single-Junction Pv Module Maximum Power Output And Reporting At Standard Test Conditions	IEC TR 60904-14:2020
601.	Photovoltaic (PV) Module Performance Testing and Energy Rating Part 1	Irradiance and Temperature Performance Measurements and Power Rating	IS 16170-1:2014
602.	Irradiance and Temperature Performance Measurements and Power Rating	Irradiance and Temperature Performance Measurements and Power Rating	IEC 61853-1:2011

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
603.	Photovoltaic (PV) Module Performance Testing and Energy Rating Part 2 Spectral Responsivity, Incidence Angle and Module Operating Temperature Measurements	Spectral Responsivity, Incidence Angle and Module Operating Temperature Measurements	IS 16170-2:2018
604.	Photovoltaic (PV) Module Performance Testing and Energy Rating Part 2 Spectral Responsivity, Incidence Angle and Module Operating Temperature Measurements	Spectral Responsivity, Incidence Angle and Module Operating Temperature Measurements	IEC 61853-2:2016
605.	Photovoltaic (PV) Module Performance Testing and	Energy Rating of PV Modules	IS 16170-3:2022
606.	Energy Rating - Part 3 Energy Rating of PV Modules	Energy Rating of PV Modules	IEC 61853-3:2018
607.	Photovoltaic Pv Module Performance Testing And	Standard Reference Climatic Profiles	IS 16170-4:2023
608.	Energy Rating Part 4: Standard Reference Climatic Profiles	Standard Reference Climatic Profiles	IEC 61853-4:2018
609.	Salt Mist Corrosion Testing of Photovoltaic (PV) Modules	Bypass diode functionality test	Cl. 4.2 of IS/IEC 61701:2011
610.		Preconditioning	Cl. 5 of IS/IEC 61701:2011
611.		Initial measurements	Cl. 6 of IS/IEC 61701:2011

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
612.		Salt mist test	Cl. 7 of IS/IEC 61701:2011
613.		Cleaning and recovery	Cl. 8 of IS/IEC 61701:2011
614.		Final Measurements	Cl. 9 of IS/IEC 61701:2011
615.		Requirements	Cl. 10 of IS/IEC 61701:2011
616.		Stabilization	Cl. 6.2 of IS 18129:2023
617.		Initial and final measurements of non-concentrator modules	Cl. 6.3 of IS 18129:2023
618.		Initial and final measurements of concentrator photovoltaic (CPV) modules	Cl. 6.4 of IS 18129:2023
619.		Salt mist test	Cl. 6.5 of IS 18129:2023
620.		Cleaning and recovery	Cl. 6.6 of IS 18129:2023
621.	Photovoltaic (PV) modules - Salt mist corrosion testing	Measurements after salt mist	Cl. 6.7 of IS 18129:2023
622.		Bypass diode test	Cl. 6.8 of IS 18129:2023
623.		Requirements	Cl. 7 of IS 18129:2023
624.		Stabilization	Cl. 6.2 of IEC 61701:2020
625.		Initial and final measurements of non-concentrator modules	Cl. 6.3 of IEC 61701:2020
626.		Initial and final measurements of concentrator photovoltaic (CPV) modules	Cl. 6.4 of IEC 61701:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
627.		Salt mist test	Cl. 6.5 of IEC 61701:2020
628.		Cleaning and recovery	Cl. 6.6 of IEC 61701:2020
629.		Measurements after salt mist	Cl. 6.7 of IEC 61701:2020
630.		Bypass diode test	Cl. 6.8 of IEC 61701:2020
631.		Requirements	Cl. 7 of IEC 61701:2020
632.		Bypass diode functionality test	Cl. 4.2 of IS 16664:2018
633.		Preconditioning	Cl. 5 of IS 16664:2018
634.		Initial measurements	Cl. 6 of IS 16664:2018
635.		Ammonia resistance test	Cl. 7 of IS 16664:2018
636.		Cleaning and recovery	Cl. 8 of IS 16664:2018
637.		Final Measurements	Cl. 9 of IS 16664:2018
638.		Requirements	Cl. 10 of IS 16664:2018
639.	Photovoltaic (PV) Modules- Ammonia Corrosion Testing	Bypass diode functionality test	Cl. 4.2 of IEC 62716:2013
640.		Preconditioning	Cl. 5 of IEC 62716:2013
641.		Initial measurements	Cl. 6 of IEC 62716:2013
642.		Ammonia resistance test	Cl. 7 of IEC 62716:2013
643.		Cleaning and recovery	Cl. 8 of IEC 62716:2013
644.		Final Measurements	Cl. 9 of IEC 62716:2013
645.		Requirements	Cl. 10 of IEC 62716:2013

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
646.	Photovoltaic (PV) Modules — Test Methods for the Detection of Potential- Induced Degradation Part 1 Crystalline Silicon	Pre-stress tests	Cl. 4.2 of IS 17210-1:2019
647.		Voltage stress test	Cl. 4.3 of IS 17210-1:2019
648.		Post-stress tests	Cl. 4.4 of IS 17210-1:2019
649.		Pre-stress tests	Cl. 4.2 of IEC TS 62804-1:2015
650.		Voltage stress test	Cl. 4.3 of IEC TS 62804-1:2015
651.	Photovoltaic (PV) Modules — Test Methods for the Detection of Potential- Induced Degradation Part 1 Crystalline Silicon	Post-stress tests	Cl. 4.4 of IEC TS 62804-1:2015
652.	Photovoltaic (PV) modules - Test methods for the detection of potential-induced degradation - Part 1-1: Crystalline silicon- Delamination	Initial visual inspection	Cl.5.2 of IEC TS 62804-1-1:2020
653.		Wet leakage current test	Cl.5.3 & 5.6 of IEC TS 62804-1-1:2020
654.		Damp heat test	Cl.5.4 of IEC TS 62804-1-1: :2020
655.		Voltage stress test	Cl.5.5 of IEC TS 62804-1-1: :2020
656.		Final visual inspection	Cl.5.7 of IEC TS 62804-1-1: :2020
657.	Photovoltaic (PV) modules - Test methods for the	Outdoor measurements	Cl. 5.2 of IEC TS 62804-2:2022
658.	detection of potential-induced degradation - Part 2: Thin-film	Accelerated testing in environment chamber	Cl. 5.3 of IEC TS 62804-2:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
659.	C-Si photovoltaic (PV) modules - Light and elevated temperature induced degradation (LETID) test – Detection	Visual inspection	Cl. 6.2 of IEC TS 63342:2022
660.		Electroluminescence Images	Cl. 6.3 of IEC TS 63342:2022
661.		Performance at STC	Cl. 6.3 of IEC TS 63342:2022
662.		B-O LID preconditioning via current injection (CID)	Cl. 6.4 of IEC TS 63342:2022
663.		Light and elevated temperature induced degradation (LETID)	Cl. 6.5 of IEC TS 63342:2022
664.	C-Si photovoltaic (PV) modules - Light and elevated temperature induced degradation (LETID) test – Detection	Dark voltage analysis	Cl. 7 of IEC TS 63342:2022
665.		Evaluation	Cl. 8 of IEC TS 63342:2022
666.	Photovoltaic cells - Part 1: Measurement of light-induced degradation of crystalline silicon photovoltaic cells	Measurement of light-induced degradation of crystalline silicon photovoltaic cells	IS/IEC 63202-1:2019
667.	Photovoltaic cells - Part 2: Electroluminescence imaging of crystalline silicon solar cells	Electroluminescence imaging of crystalline silicon solar cells	IEC TS 63202-2:2021
668.	Photovoltaic cells - Part 3: Measurement of current - voltage characteristics of bifacial photovoltaic cells	Measurement of current - voltage characteristics of bifacial photovoltaic cells	IEC TS 63202-3:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
669.	Photovoltaic cells - Part 4: Measurement of light and elevated temperature induced degradation of crystalline silicon photovoltaic cells	Measurement of light and elevated temperature induced degradation of crystalline silicon photovoltaic cells	IEC TS 63202-4:2022
670.	Thin-Film Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	Marking	Cl. 4 of IS 16077:2013
671.	Thin-Film Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	Visual inspection	Cl. 10.1 of IS 16077:2013
672.		Maximum power determination	Cl. 10.2 of IS 16077:2013
673.		Insulation test	Cl. 10.3 of IS 16077:2013
674.		Measurement of temperature coefficients	Cl. 10.4 of IS 16077:2013
675.		Measurement of nominal operating cell temperature (NOCT)	Cl. 10.5 of IS 16077:2013
676.		Performance at STC and NOCT	Cl. 10.6 of IS 16077:2013
677.		Performance at low temperature	Cl. 10.7 of IS 16077:2013
678.		Outdoor exposure test	Cl. 10.8 of IS 16077:2013

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
679.		Hot-spot endurance test	Cl. 10.9 of IS 16077:2013
680.		UV preconditioning test	Cl. 10.10 of IS 16077:2013
681.		Thermal cycling test	Cl. 10.11 of IS 16077:2013
682.		Humidity-freeze test	Cl. 10.12 of IS 16077:2013
683.		Damp heat test	Cl. 10.13 of IS 16077:2013
684.		Robustness of termination test	Cl. 10.14 of IS 16077:2013
685.		Wet leakage current test	Cl. 10.15 of IS 16077:2013
686.		Mechanical load test	Cl. 10.16 of IS 16077:2013
687.		Hail test	Cl. 10.17 of IS 16077:2013
688.		Bypass diode thermal test	Cl. 10.18 of IS 16077:2013
689.	Thin-Film Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	Light-soaking	Cl. 10.19 of IS 16077:2013
690.		Marking	Cl. 4 of IEC 61646:2008
691.		Visual inspection	Cl. 10.1 of IEC 61646:2008
692.		Maximum power determination	Cl. 10.2 of IEC 61646:2008
693.		Insulation test	Cl. 10.3 of IEC 61646:2008
694.		Measurement of temperature coefficients	Cl. 10.4 of IEC 61646:2008



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
695.		Measurement of nominal operating cell temperature (NOCT)	Cl. 10.5 of IEC 61646:2008
696.		Performance at STC and NOCT	Cl. 10.6 of IEC 61646:2008
697.		Performance at low temperature	Cl. 10.7 of IEC 61646:2008
698.		Outdoor exposure test	Cl. 10.8 of IEC 61646:2008
699.		Hot-spot endurance test	Cl. 10.9 of IEC 61646:2008
700.		UV preconditioning test	Cl. 10.10 of IEC 61646:2008
701.		Thermal cycling test	Cl. 10.11 of IEC 61646:2008
702.		Humidity-freeze test	Cl. 10.12 of IEC 61646:2008
703.	Thin-Film Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	Damp heat test	Cl. 10.13 of IEC 61646:2008
704.		Robustness of termination test	Cl. 10.14 of IEC 61646:2008
705.		Wet leakage current test	Cl. 10.15 of IEC 61646:2008
706.		Mechanical load test	Cl. 10.16 of IEC 61646:2008
707.		Hail test	Cl. 10.17 of IEC 61646:2008
708.		Bypass diode thermal test	Cl. 10.18 of IEC 61646:2008
709.		Light-soaking	Cl. 10.19 of IEC 61646:2008
710.	UV test for photovoltaic (PV) modules	UV test for photovoltaic (PV) modules	IS 16149:2014

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
711.		UV test for photovoltaic (PV) modules	IEC 61345:1998
712.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Marking	Cl. 5 of IS 16228:2019
713.		Visual inspection	Cl. 10.1 of IS 16228:2019
714.		Electrical performance measurement	Cl. 10.2 of IS 16228:2019
715.		Ground path continuity test	Cl. 10.3 of IS 16228:2019
716.		Electrical insulation test	Cl. 10.4 of IS 16228:2019
717.		Wet insulation test	Cl. 10.5 of IS 16228:2019
718.		Thermal cycling test	Cl. 10.6 of IS 16228:2019
719.		Damp heat test	Cl. 10.7 of IS 16228:2019
720.		Humidity freeze test	Cl. 10.8 of IS 16228:2019
721.		Hail impact test	Cl. 10.9 of IS 16228:2019
722.		Dust and water ingress protection test	Cl. 10.10 of IS 16228:2019
723.		Bypass/blocking diode thermal test	Cl. 10.11 of IS 16228:2019
724.		Robustness of termination test	Cl. 10.12 of IS 16228:2019
725.	Mechanical load test	Cl. 10.13 of IS 16228:2019	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
726.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Off-axis beam damage test	Cl. 10.14 of IS 16228:2019
727.		Outdoor exposure test	Cl. 10.15 of IS 16228:2019
728.		Hot-spot endurance test	Cl. 10.16 of IS 16228:2019
729.		Marking	Cl. 5 of IEC 62108:2016
730.		Visual inspection	Cl. 10.1 of IEC 62108:2016
731.		Electrical performance measurement	Cl. 10.2 of IEC 62108:2016
732.		Ground path continuity test	Cl. 10.3 of IEC 62108:2016
733.		Electrical insulation test	Cl. 10.4 of IEC 62108:2016
734.		Wet insulation test	Cl. 10.5 of IEC 62108:2016
735.		Thermal cycling test	Cl. 10.6 of IEC 62108:2016
736.		Damp heat test	Cl. 10.7 of IEC 62108:2016
737.		Humidity freeze test	Cl. 10.8 of IEC 62108:2016
738.		Hail impact test	Cl. 10.9 of IEC 62108:2016
739.		Water spray test	Cl. 10.10 of IEC 62108:2016
740.		Bypass/blocking diode thermal test	Cl. 10.11 of IEC 62108: :2016
741.	Robustness of termination test	Cl. 10.12 of IEC 62108:2016	
742.	Mechanical load test	Cl. 10.13 of IEC 62108: :2016	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
743.		Off-axis beam damage test	Cl. 10.14 of IEC 62108:2016
744.		Outdoor exposure test	Cl. 10.15 of IEC 62108:2016
745.		Hot-spot endurance test	Cl. 10.16 of IEC 62108:2016
746.		Dust ingress protection test	Cl. 10.17 of IEC 62108:2016
747.	Photovoltaic (PV) Systems — Requirements for Testing, Documentation and Maintenance Part 3	Photovoltaic Modules and Plants Outdoor Infrared Thermography	IS 16960-3:2020
748.	Photovoltaic Modules and Plants Outdoor Infrared Thermography	Photovoltaic Modules and Plants Outdoor Infrared Thermography	IEC 62446-3:2017
749.	Extended Thermal Cycling Of PV Modules Test Procedure	Extended Thermal Cycling of PV Modules	IS 17956:2023
750.		Extended Thermal Cycling of PV Modules	IEC 62892:2019
751.	Guidelines For Qualifying Pv Modules Components And Materials For Operation At High Temperatures	Hot-spot endurance test (MQT 09)	CL. 4.2 of IS 17959:2023
752.		UV preconditioning test (MQT 10)	CL. 4.3 of IS 17959:2023
753.		Thermal cycling test (MQT 11)	CL. 4.4 of IS 17959:2023
754.		Bypass diode testing (MQT 18)	CL. 4.5 of IS 17959:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
755.		Hot spot endurance test (MST 22)	CL. 5.2.2 of IS 17959:2023
756.		Bypass diode thermal test (MST 25)	CL. 5.2.3 of IS 17959:2023
757.		Materials creep test (MST 37)	CL. 5.2.4 of IS 17959:2023
758.		Thermal Cycling test (MST 51)	CL. 5.2.5 of IS 17959:2023
759.		UV test (MST 54)	CL. 5.2.6 of IS 17959:2023
760.		Dry heat conditioning (MST 56)	CL. 5.2.7 of IS 17959:2023
761.		Modification to component standards	CL. 6 of IS 17959:2023
762.		Hot-spot endurance test (MQT 09)	CL. 4.2 of IEC TS 63126:2020
763.	Guidelines For Qualifying Pv Modules Components And Materials For Operation At High Temperatures	UV preconditioning test (MQT 10)	CL. 4.3 of IEC TS 63126:2020
764.		Thermal cycling test (MQT 11)	CL. 4.4 of IEC TS 63126:2020
765.		Bypass diode testing (MQT 18)	CL. 4.5 of IEC TS 63126:2020
766.		Hot spot endurance test (MST 22)	CL. 5.2.2 of IEC TS 63126:2020
767.		Bypass diode thermal test (MST 25)	CL. 5.2.3 of IEC TS 63126:2020
768.		Materials creep test (MST 37)	CL. 5.2.4 of IEC TS 63126:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
769.		Thermal Cycling test (MST 51)	CL. 5.2.5 of IEC TS 63126:2020
770.		UV test (MST 54)	CL. 5.2.6 of IEC TS 63126:2020
771.		Dry heat conditioning (MST 56)	CL. 5.2.7 of IEC TS 63126:2020
772.		Modification to component standards	CL. 6 of IEC TS 63126:2020
773.	Photovoltaic (PV) Modules- Qualifying Guidelines for Increased Hail Resistance	Visual inspection (MQT 01)	Cl. 5.2 of IS 18611:2024
774.		Initial stabilization (MQT 19.1)	Cl. 5.3 of IS 18611:2024
775.		Performance at STC (MQT 06.1)	Cl. 5.4 of IS 18611:2024
776.		Performance at low irradiance (MQT 07)	Cl. 5.5 of IS 18611:2024
777.		Insulation test (MQT 03)	Cl. 5.6 of IS 18611:2024
778.	Photovoltaic (PV) Modules- Qualifying Guidelines for Increased Hail Resistance	Wet leakage current test (MQT 15)	Cl. 5.7 of IS 18611:2024
779.		Electroluminescence imaging	Cl. 5.8 of IS 18611:2024
780.		Damp heat test (MQT 13)	Cl. 5.9 of IS 18611:2024
781.		Hail test (MQT 17)	Cl. 5.10 of IS 18611:2024
782.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. 5.11 of IS 18611:2024
783.		Thermal cycling test (MQT 11)	Cl. 5.12 of IS 18611:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
784.	Photovoltaic (PV) Modules- Qualifying Guidelines for Increased Hail Resistance	Humidity-freeze test (MQT 12)	Cl. 5.13 of IS 18611:2024
785.		Final stabilization test (MQT 19.2)	Cl. 5.14 of IS 18611:2024
786.		Visual inspection (MQT 01)	Cl. 5.2 of IEC TS 63397:2022
787.		Initial stabilization (MQT 19.1)	Cl. 5.3 of IEC TS 63397:2022
788.		Performance at STC (MQT 06.1)	Cl. 5.4 of IEC TS 63397:2022
789.		Performance at low irradiance (MQT 07)	Cl. 5.5 of IEC TS 63397:2022
790.		Insulation test (MQT 03)	Cl. 5.6 of IEC TS 63397:2022
791.		Wet leakage current test (MQT 15)	Cl. 5.7 of IEC TS 63397:2022
792.		Electroluminescence imaging	Cl. 5.8 of IEC TS 63397:2022
793.		Damp heat test (MQT 13)	Cl. 5.9 of IEC TS 63397:2022
794.		Hail test (MQT 17)	Cl. 5.10 of IEC TS 63397:2022
795.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. 5.11 of IEC TS 63397:2022
796.		Thermal cycling test (MQT 11)	Cl. 5.12 of IEC TS 63397:2022
797.		Humidity-freeze test (MQT 12)	Cl. 5.13 of IEC TS 63397:2022
798.	Final stabilization test (MQT 19.2)	Cl. 5.14 of IEC TS 63397:2022	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
799.	Concentrator photovoltaic (CPV) modules and assemblies - safety qualification	Marking	Cl. 5 of IS/IEC 62688:2017
800.		Requirements for construction - Module application classes	Cl. 7 of IS/IEC 62688:2017
801.		Overcurrent protection	Cl. 11 of IS/IEC 62688:2017
802.		Metal Parts	Cl. 12 of IS/IEC 62688:2017
803.		Polymeric materials	Cl. 13 of IS/IEC 62688:2017
804.		Internal wiring and current-carrying parts	Cl. 14 of IS/IEC 62688:2017
805.		Connections	Cl. 15 of IS/IEC 62688:2017
806.		Bonding and grounding	Cl. 16 of IS/IEC 62688:2017
807.		Protection against electric shock and energy hazards	Cl. 17 of IS/IEC 62688:2017
808.		Concentrator photovoltaic (CPV) modules and assemblies - safety qualification	Field wiring compartments with covers
809.	Visual inspection		Cl. 20.2 of IS/IEC 62688:2017
810.	Accessibility test		Cl. 20.3 of IS/IEC 62688:2017
811.	Grounding/bonding path continuity test		Cl. 20.4 of IS/IEC 62688:2017
812.	Dielectric voltage withstand test		Cl. 20.5 of IS/IEC 62688:2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
813.	Concentrator photovoltaic (CPV) modules and assemblies - safety qualification	Wet insulation test	Cl. 20.6 of IS/IEC 62688:2017
814.		Reverse current overload	Cl. 20.7 of IS/IEC 62688:2017
815.		Thermal cycling	Cl. 20.8 of IS/IEC 62688:2017
816.		Humidity Freeze	Cl. 20.9 of IS/IEC 62688:2017
817.		Damp Heat	Cl. 20.10 of IS/IEC 62688:2017
818.		Bypass diode thermal	Cl. 20.11 of IS/IEC 62688:2017
819.		Hot spot endurance	Cl. 20.12 of IS/IEC 62688:2017
820.		Off-axis beam damage	Cl. 20.13 of IS/IEC 62688:2017
821.		Water Spray	Cl. 20.14 of IS/IEC 62688:2017
822.		Mechanical load	Cl. 20.15 of IS/IEC 62688:2017
823.		Robustness of terminations	Cl. 20.16 of IS/IEC 62688:2017
824.		Impulse voltage	Cl. 20.17 of IS/IEC 62688:2017
825.		CPV temperature test	Cl. 20.18 of IS/IEC 62688:2017
826.		Fire test recommendation for CPV modules	Cl. 20.19 of IS/IEC 62688:2017
827.		CPV electrical parameters	Cl. 20.20 of IS/IEC 62688:2017
828.		Outdoor exposure	Cl. 20.21 of IS/IEC 62688:2017
829.		Sharp edge test	Cl. 20.22 of IS/IEC 62688:2017

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
830.		Blocked heat sink test	Cl. 20.23 of IS/IEC 62688:2017
831.		Locked rotor test	Cl. 20.24 of IS/IEC 62688:2017
832.	Photovoltaic (PV) Modules — Cyclic (Dynamic) Mechanical Load Testing	Cyclic (Dynamic) Mechanical Load Testing	IS/IEC/TS 62782:2016
833.	Concentrator Photovoltaic (CPV) Modules — Thermal Cycling Test to Differentiate Increased Thermal Fatigue Durability	Marking	Cl. 5 of IS/IEC 62925:2016
834.		Cell evaluation	Cl. 10.2 of IS/IEC 62925:2016
835.		Thermal cycling	Cl. 10.3 of IS/IEC 62925:2016
836.		outdoor exposure test	Cl. 10.4 of IS/IEC 62925:2016
837.	Photovoltaic (PV) Array — On-Site Measurement of Current-Voltage Characteristics	Photovoltaic (PV) Array — On- Site Measurement of Current- Voltage Characteristics	IS/IEC 61829:2015
838.	Junction boxes for photovoltaic modules - Safety requirements and tests	Marking and identification	Cl. 4.2 of IS 16911:2023
839.		Protection against electric shock	Cl. 4.3 of IS 16911:2023
840.		Terminations, connecting devices and connection methods	Cl. 4.4 of IS 16911:2023
841.		Connectors	Cl. 4.5 of IS 16911:2023
842.		Cables	Cl. 4.6 of IS 16911:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
843.	Junction boxes for photovoltaic modules - Safety requirements and tests	Resistance to ageing	Cl. 4.7 of IS 16911:2023
844.		General design	Cl. 4.8 of IS 16911:2023
845.		Degree of protection (IP)	Cl. 4.9 of IS 16911:2023
846.		Dielectric strength	Cl. 4.10 of IS 16911:2023
847.		Range of ambient temperature	Cl. 4.11 of IS 16911:2023
848.		Cable anchorage	Cl. 4.12 of IS 16911:2023
849.		Mechanical strength	Cl. 4.13 of IS 16911:2023
850.		Insulation	Cl. 4.14 of IS 16911:2023
851.		Clearances and creepage distances	Cl. 4.15 of IS 16911:2023
852.		Insulation parts	Cl. 4.16 of IS 16911:2023
853.		Current carrying parts and resistance against corrosion	Cl. 4.17 of IS 16911:2023
854.		Sealing	Cl. 4.18 of IS 16911:2023
855.		Bypass-diode	Cl. 4.19 of IS 16911:2023
856.		Knock-out inlets (outlets) intended to be removed by mechanical impact	Cl. 4.20 of IS 16911:2023
857.		Durability of marking	Cl. 5.3.2 of IS 16911:2023

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Alpha Test House Services LLP

Plot No. 124, Industrial Area, Phase 9, Mohali,

S.A.S Nagar-160062, Punjab, India

QAI/CIA/TL/2024/0087

Valid from: 22 November 2024

* Scope Amended w.e.f.: 28 March 2026

Valid until: 21 November 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
858.		Fixing of lid on rewirable junction box	Cl. 5.3.3 of IS 16911:2023
859.		Protection against electrical shock	Cl. 5.3.4 of IS 16911:2023
860.		Measurement of clearances and creepage distances	Cl. 5.3.5 of IS 16911:2023
861.		Dielectric strength	Cl. 5.3.6 of IS 16911:2023
862.		Resistance to corrosion	Cl. 5.3.7 of IS 16911:2023
863.		Mechanical strength at lower temperature	Cl. 5.3.8 of IS 16911:2023
864.		Junction boxes for photovoltaic modules - Safety requirements and tests	Thermal cycle test
865.	Environmental testing - Part 2 - 14 : Tests - Test N: Change of temperature	Test Na: rapid change of temperature with prescribed time of transfer	Cl. 7 of IEC 60068-2-14:2009
866.		Test Nb: change of temperature with specified rate of change	Cl. 8 of IEC 60068-2-14:2009
867.		Test Nc: rapid change of temperature, two-fluid-bath method	Cl. 9 of IEC 60068-2-14:2009
868.		Damp heat test	Cl. 5.3.10 of IS 16911:2023
869.		Weather resistance test	Cl. 5.3.11 of IS 16911:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
870.	Junction boxes for photovoltaic modules - Safety requirements and tests	Flammability class	Cl. 5.3.12 of IS 16911:2023
871.		Ball pressure test	Cl. 5.3.13 of IS 16911:2023
872.		Glow wire test	Cl. 5.3.14 of IS 16911:2023
873.		Resistance against ageing	Cl. 5.3.15 of IS 16911:2023
874.		Wet leakage current test	Cl. 5.3.16 of IS 16911:2023
875.		Humidity freeze test	Cl. 5.3.17 of IS 16911:2023
876.		Bypass diode thermal test	Cl. 5.3.18 of IS 16911:2023
877.	Junction boxes for photovoltaic modules - Safety requirements and tests	Test of terminations and connection method	Cl. 5.3.19 of IS 16911:2023
878.		Knock-out inlets (outlets) intended to be removed by mechanical impact	Cl. 5.3.20 of IS 16911:2023
879.		Test of cord anchorage	Cl. 5.3.21 of IS 16911:2023
880.		Retention on the mounting surface	Cl. 5.3.22 of IS 16911:2023
881.		Reverse current test at junction box	Cl. 5.3.23 of IS 16911:2023
882.		Marking and identification	Cl. 4.2 of IEC 62790:2020
883.		Protection against electric shock	Cl. 4.3 of IEC 62790:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
884.	Junction boxes for photovoltaic modules - Safety requirements and tests	Terminations, connecting devices and connection methods	Cl. 4.4 of IEC 62790:2020
885.		Connectors	Cl. 4.5 of IEC 62790:2020
886.		Cables	Cl. 4.6 of IEC 62790:2020
887.		Resistance to ageing	Cl. 4.7 of IEC 62790:2020
888.		General design	Cl. 4.8 of IS IEC 62790:2020
889.		Degree of protection (IP)	Cl. 4.9 of IEC 62790:2020
890.		Dielectric strength	Cl. 4.10 of IEC 62790:2020
891.		Range of ambient temperature	Cl. 4.11 of IEC 62790:2020
892.		Cable anchorage	Cl. 4.12 of IEC 62790:2020
893.		Mechanical strength	Cl. 4.13 of IEC 62790:2020
894.		Insulation	Cl. 4.14 of IEC 62790:2020
895.		Clearances and creepage distances	Cl. 4.15 of IEC 62790:2020
896.		Insulation parts	Cl. 4.16 of IEC 62790:2020
897.		Current carrying parts and resistance against corrosion	Cl. 4.17 of IEC 62790:2020
898.	Sealing	Cl. 4.18 of IEC 62790:2020	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
899.	Junction boxes for photovoltaic modules - Safety requirements and tests	Bypass-diode	Cl. 4.19 of IEC 62790:2020
900.		Knock-out inlets (outlets) intended to be removed by mechanical impact	Cl. 4.20 of IEC 62790:2020
901.		Durability of marking	Cl. 5.3.2 of IEC 62790:2020
902.		Fixing of lid on rewirable junction box	Cl. 5.3.3 of IEC 62790:2020
903.		Protection against electrical shock	Cl. 5.3.4 of IEC 62790:2020
904.		Measurement of clearances and creepage distances	Cl. 5.3.5 of IEC 62790:2020
905.		Dielectric strength	Cl. 5.3.6 of IEC 62790:2020
906.		Resistance to corrosion	Cl. 5.3.7 of IEC 62790:2020
907.		Mechanical strength at lower temperature	Cl. 5.3.8 of IEC 62790:2020
908.		Thermal cycle test	Cl. 5.3.9 of IEC 62790:2020
909.		Damp heat test	Cl. 5.3.10 of IEC 62790:2020
910.		Weather resistance test	Cl. 5.3.11 of IEC 62790:2020
911.		Flammability class	Cl. 5.3.12 of IEC 62790:2020
912.		Ball pressure test	Cl. 5.3.13 of IEC 62790:2020
913.	Glow wire test	Cl. 5.3.14 of IEC 62790:2020	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
914.		Resistance against ageing	Cl. 5.3.15 of IEC 62790:2020
915.		Wet leakage current test	Cl. 5.3.16 of IEC 62790:2020
916.		Humidity freeze test	Cl. 5.3.17 of IEC 62790:2020
917.		Bypass diode thermal test	Cl. 5.3.18 of IEC 62790:2020
918.		Test of terminations and connection method	Cl. 5.3.19 of IEC 62790:2020
919.	Junction boxes for photovoltaic modules - Safety requirements and tests	Knock-out inlets (outlets) intended to be removed by mechanical impact	Cl. 5.3.20 of IEC 62790:2020
920.		Test of cord anchorage	Cl. 5.3.21 of IEC 62790:2020
921.		Retention on the mounting surface	Cl. 5.3.22 of IEC 62790:2020
922.		Reverse current test at junction box	Cl. 5.3.23 of IEC 62790:2020
923.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Marking	Cl. 5 of IEC 62108:2022
924.		Visual inspection	Cl. 10.1 of IEC 62108:2022
925.		Electrical performance measurement	Cl. 10.2 of IEC 62108:2022
926.		Ground path continuity test	Cl. 10.3 of IEC 62108:2022
927.		Electrical insulation test	Cl. 10.4 of IEC 62108:2022
928.		Wet insulation test	Cl. 10.5 of IEC 62108:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
929.		Thermal cycling test	Cl. 10.6 of IEC 62108:2022
930.		Damp heat test	Cl. 10.7 of IEC 62108:2022
931.		Humidity freeze test	Cl. 10.8 of IEC 62108:2022
932.		Hail impact test	Cl. 10.9 of IEC 62108:2022
933.		Dust and water ingress protection test	Cl. 10.10 of IEC 62108:2022
934.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Bypass/blocking diode thermal test	Cl. 10.11 of IEC 62108:2022
935.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Robustness of terminations test	Cl. 10.12 of IEC 62108:2022
936.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Mechanical load test	Cl. 10.13 of IEC 62108:2022
937.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Off-axis beam damage test	Cl. 10.14 of IEC 62108:2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
938.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Outdoor exposure test	Cl. 10.15 of IEC 62108:2022
939.	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Hot-spot endurance test	Cl. 10.16 of IEC 62108:2022
940.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Classification	Cl. 4 of IS 16781:2018+AMD1:2024
941.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Marking and identification	Cl. 5.2 of IS 16781:2018+AMD1:2024
942.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Provision against incorrect mating (non-intermateable)	Cl. 5.3 of IS 16781:2018+AMD1:2024
943.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Protection against electric shock	Cl. 5.4 of IS 16781:2018+AMD1:2024
944.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Terminations and connection methods	Cl. 5.5 of IS 16781:2018+AMD1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
945.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Resistance to deterioration	Cl. 5.6 of IS 16781:2018+AMD1:2024
946.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	General design	Cl. 5.7 of IS 16781:2018+AMD1:2024
947.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Design of a free connector	Cl. 5.8 of IS 16781:2018+AMD1:2024
948.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Degree of protection (IP code)	Cl. 5.9 of IS 16781:2018+AMD1:2024
949.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Dielectric strength	Cl. 5.10 of IS 16781:2018+AMD1:2024
950.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Mechanical and electrical durability	Cl. 5.11 of IS 16781:2018+AMD1:2024
951.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Temperature rise	Cl. 5.13 of IS 16781:2018+AMD1:2024
952.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Cable anchorage	Cl. 5.14 of IS 16781:2018+AMD1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
953.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Mechanical strength	Cl. 5.15 of IS 16781:2018+AMD1:2024
954.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Clearances and creepage distances	Cl. 5.18 of IS 16781:2018+AMD1:2024
955.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Insulation parts	Cl. 5.19 of IS 16781:2018+AMD1:2024
956.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Current carrying parts and resistance against corrosion	Cl. 5.20 of IS 16781:2018+AMD1:2024
957.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Durability of marking	Cl. 6.3.2 of IS 16781:2018+AMD1:2024
958.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Protection against electric shock	Cl. 6.3.3 of IS 16781:2018+AMD1:2024
959.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Temperature rise	Cl. 6.3.4 of IS 16781:2018+AMD1:2024
960.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Mechanical operation	Cl. 6.3.5 of IS 16781:2018+AMD1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
961.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Bending (flexing) test	Cl. 6.3.6 of IS 16781:2018+AMD1:2024
962.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Measurement of clearances and creepage distances	Cl. 6.3.7 of IS 16781:2018+AMD1:2024
963.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Dielectric strength	Cl. 6.3.8 of IS 16781:2018+AMD1:2024
964.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Corrosion test	Cl. 6.3.9 of IS 16781:2018+AMD1:2024
965.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Mechanical strength at lower temperatures	Cl. 6.3.10 of IS 16781:2018+AMD1:2024
966.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Change of temperature	Cl. 6.3.11 of IS 16781:2018+AMD1:2024
967.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Damp heat test	Cl. 6.3.12 of IS 16781:2018+AMD1:2024
968.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Insertion and withdrawal force	Cl. 6.3.13 of IS 16781:2018+AMD1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
969.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Effectiveness of connector coupling device	Cl. 6.3.14 of IS 16781:2018+AMD1:2024
970.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Terminations and connecting methods	Cl. 6.3.15 of IS 16781:2018+AMD1:2024
971.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Classification	Cl. 4 of IEC 62852:2014 + AMD1:2020
972.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Marking and identification	Cl. 5.2 of IEC 62852:2014 + AMD1:2020
973.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Provision against incorrect mating (non-intermateable)	Cl. 5.3 of IEC 62852:2014 + AMD1:2020
974.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Protection against electric shock	Cl. 5.4 of IEC 62852:2014 + AMD1:2020
975.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Terminations and connection methods	Cl. 5.5 of IEC 62852:2014 + AMD1:2020
976.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Resistance to deterioration	Cl. 5.6 of IEC 62852:2014 + AMD1:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
977.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	General design	Cl. 5.7 of IEC 62852:2014 + AMD1:2020
978.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Design of a free connector	Cl. 5.8 of IEC 62852:2014 + AMD1:2020
979.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Degree of protection (IP code)	Cl. 5.9 of IEC 62852:2014 + AMD1:2020
980.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Dielectric strength	Cl. 5.10 of IEC 62852:2014 + AMD1:2020
981.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Mechanical and electrical durability	Cl. 5.11 of IEC 62852:2014 + AMD1:2020
982.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Temperature rise	Cl. 5.13 of IEC 62852:2014 + AMD1:2020
983.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Cable anchorage	Cl. 5.14 of IEC 62852:2014 + AMD1:2020
984.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Mechanical strength	Cl. 5.15 of IEC 62852:2014 + AMD1:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
985.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Clearances and creepage distances	Cl. 5.18 of IEC 62852:2014 + AMD1:2020
986.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Insulation parts	Cl. 5.19 of IEC 62852:2014 + AMD1:2020
987.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Current carrying parts and resistance against corrosion	Cl. 5.20 of IEC 62852:2014 + AMD1:2020
988.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Durability of marking	Cl. 6.3.2 of IEC 62852:2014 + AMD1:2020
989.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Protection against electric shock	Cl. 6.3.3 of IEC 62852:2014 + AMD1:2020
990.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Temperature rise	Cl. 6.3.4 of IEC 62852:2014 + AMD1:2020
991.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Mechanical operation	Cl. 6.3.5 of IEC 62852:2014 + AMD1:2020
992.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Bending (flexing) test	Cl. 6.3.6 of IEC 62852:2014 + AMD1:2020

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
993.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Measurement of clearances and creepage distances	Cl. 6.3.7 of IEC 62852:2014 + AMD1:2020
994.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Dielectric strength	Cl. 6.3.8 of IEC 62852:2014 + AMD1:2020
995.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Corrosion test	Cl. 6.3.9 of IEC 62852:2014 + AMD1:2020
996.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Mechanical strength at lower temperatures	Cl. 6.3.10 of IEC 62852:2014 + AMD1:2020
997.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Change of temperature	Cl. 6.3.11 of IEC 62852:2014 + AMD1:2020
998.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Damp heat test	Cl. 6.3.12 of IEC 62852:2014 + AMD1:2020
999.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Insertion and withdrawal force	Cl. 6.3.13 of IEC 62852:2014 + AMD1:2020
1000.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Effectiveness of connector coupling device	Cl. 6.3.14 of IEC 62852:2014 + AMD1:2020

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Scope of Accreditation

Alpha Test House Services LLP

Plot No. 124, Industrial Area, Phase 9, Mohali,

S.A.S Nagar-160062, Punjab, India

QAI/CIA/TL/2024/0087

Valid from: 22 November 2024

* Scope Amended w.e.f.: 28 March 2026

Valid until: 21 November 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1001.	Connectors for DC-application in photovoltaic systems - safety requirements and tests	Terminations and connecting methods	Cl. 6.3.15 of IEC 62852:2014 + AMD1:2020
1002.	Photovoltaic Modules — Bypass Diode Electrostatic Discharge Susceptibility Testing	Bypass Diode Electrostatic Discharge Susceptibility Testing	IS/IEC/TS 62916:2017
1003.	Photovoltaic Modules — Bypass Diode — Thermal Runaway Test	Bypass Diode — Thermal Runaway Test	IS/IEC 62979:2017
1004.	Photovoltaic modules - Extended - stress testing - Part 1: Modules	Physical measurement	Cl. 5.2 of IEC TS 63209-1:2021
1005.		visual inspection	Cl. 5.3 of IEC TS 63209-1:2021
1006.		Initial stabilization	Cl. 5.4 of IEC TS 63209-1:2021
1007.		Performance	Cl. 5.5 of IEC TS 63209-1:2021
1008.		Insulation test	Cl. 5.6 of IEC TS 63209-1:2021
1009.		Wet leakage current	Cl. 5.7 of IEC TS 63209-1:2021
1010.		Electroluminescent imaging	Cl. 5.8 of IEC TS 63209-1:2021
1011.		Insulation thickness test	Cl. 5.9 of IEC TS 63209-1:2021
1012.		Thermal cycling	Cl. 5.10 of IEC TS 63209-1:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1013.	Photovoltaic modules - Extended - stress testing - Part 1: Modules	Humidity Freeze	Cl. 5.11 of IEC TS 63209-1:2021
1014.		Final stabilization	Cl. 5.12 of IEC TS 63209-1:2021
1015.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of UL 61512-1:2021
1016.		Major visual defects	Cl. No. 8 of UL 61215-1:2021
1017.		Marking and documentation	Cl. No. 5 of UL 61215-1-1:2021
1018.		Major visual defects	Cl. No. 8 of UL 61215-1-1:2021
1019.		Visual Inspection (MQT 01)	Cl. No. 11.1 of UL 61215-1-1:2021
1020.		Maximum power determination (MQT 02)	Cl. No. 11.2 of UL 61215-1-1:2021
1021.		Insulation test (MQT 03)	Cl. No. 11.3 of UL 61215-1-1:2021
1022.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of UL 61215-1-1:2021
1023.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of UL 61215-1-1:2021
1024.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of UL 61215-1-1:2021
1025.	Outdoor exposure test (MQT 08)	Cl. No. 11.8 of UL 61215-1-1:2021	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1026.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of UL 61215-1-1:2021
1027.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of UL 61215-1-1:2021
1028.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of UL 61215-1-1:2021
1029.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of UL 61215-1-1:2021
1030.		Damp heat test (MQT 13)	Cl. No. 11.13 of UL 61215-1-1:2021
1031.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of UL 61215-1-1:2021
1032.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of UL 61215-1-1:2021
1033.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of UL 61215-1-1:2021
1034.		Hail test (MQT 17)	Cl. No. 11.17 of UL 61215-1-1:2021
1035.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of UL 61215-1-1:2021
1036.		Stabilization (MQT 19)	Cl. No. 11.19 of UL 61215-1-1:2021
1037.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of UL 61215-1-1:2021
1038.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of UL 61215-1-1:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1039.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Bending test (MQT 22)	Cl. No. 11.22 of UL 61215-1-1:2021
1040.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of UL 61215-1-2:2021 + AMD1: 2023
1041.		Major visual defects	Cl. No. 8 of UL 61215-1-2:2021 + AMD1: 2023
1042.		Visual Inspection (MQT 01)	Cl. No. 11.1 of UL 61215-1-2:2021 + AMD1: 2023
1043.		Maximum power determination (MQT 02)	Cl. No. 11.2 of UL 61215-1-2:2021 + AMD1: 2023
1044.		Insulation test (MQT 03)	Cl. No. 11.3 of UL 61215-1-2:2021 + AMD1: 2023
1045.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of UL 61215-1-2:2021 + AMD1: 2023
1046.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of UL 61215-1-2:2021 + AMD1: 2023
1047.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of UL 61215-1-2:2021 + AMD1: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1048.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Outdoor exposure test (MQT 08)	Cl. No. 11.8 of UL 61215-1-2:2021 + AMD1: 2023
1049.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of UL 61215-1-2:2021 + AMD1: 2023
1050.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of UL 61215-1-2:2021 + AMD1: 2023
1051.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of UL 61215-1-2:2021 + AMD1: 2023
1052.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of UL 61215-1-2:2021 + AMD1: 2023
1053.		Damp heat test (MQT 13)	Cl. No. 11.13 of UL 61215-1-2:2021 + AMD1: 2023
1054.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of UL 61215-1-2:2021 + AMD1: 2023
1055.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of UL 61215-1-2:2021 + AMD1: 2023
1056.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of UL 61215-1-2:2021 + AMD1: 2023
1057.		Hail test (MQT 17)	Cl. No. 11.17 of UL 61215-1-2:2021 + AMD1: 2023
1058.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of UL 61215-1-2:2021 + AMD1: 2023
1059.	Stabilization (MQT 19)	Cl. No. 11.19 of UL 61215-1-2 + AMD1: 2023	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1060.	Terrestrial Photovoltaic (PV) Modules - Design	Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of UL 61215-1-2:2021 + AMD1: 2023
1061.	Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Potential induced degradation test (MQT 21)	Cl. No. 11.21 of UL 61215-1-2:2021 + AMD1: 2023
1062.		Bending test (MQT 22)	Cl. No. 11.22 of UL 61215-1-2:2021 + AMD1: 2023
1063.		Marking and documentation	Cl. No. 5 of UL 61215-1-3:2021 + AMD1: 2023
1064.		Major visual defects	Cl. No. 8 of UL 61215-1-3:2021 + AMD1: 2023
1065.	Terrestrial Photovoltaic (PV) Modules - Design	Visual Inspection (MQT 01)	Cl. No. 11.1 of UL 61215-1-3:2021 + AMD1: 2023
1066.	Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Maximum power determination (MQT 02)	Cl. No. 11.2 of UL 61215-1-3:2021 + AMD1: 2023
1067.		Insulation test (MQT 03)	Cl. No. 11.3 of UL 61215-1-3:2021 + AMD1: 2023
1068.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of UL 61215-1-3:2021 + AMD1: 2023
1069.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of UL 61215-1-3:2021 + AMD1: 2023
1070.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of UL 61215-1-3:2021 + AMD1: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1071.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Outdoor exposure test (MQT 08)	Cl. No. 11.8 of UL 61215-1-3:2021 + AMD1: 2023
1072.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of UL 61215-1-3:2021 + AMD1: 2023
1073.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of UL 61215-1-3:2021 + AMD1: 2023
1074.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of UL 61215-1-3:2021 + AMD1: 2023
1075.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of UL 61215-1-3:2021 + AMD1: 2023
1076.		Damp heat test (MQT 13)	Cl. No. 11.13 of UL 61215-1-3:2021 + AMD1: 2023
1077.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of UL 61215-1-3:2021 + AMD1: 2023
1078.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of UL 61215-1-3:2021 + AMD1: 2023
1079.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of UL 61215-1-3:2021 + AMD1: 2023
1080.		Hail test (MQT 17)	Cl. No. 11.17 of UL 61215-1-3:2021 + AMD1: 2023
1081.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of UL 61215-1-3:2021 + AMD1: 2023
1082.		Stabilization (MQT 19)	Cl. No. 11.19 of UL 61215-1-3:2021 + AMD1: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1083.	Terrestrial Photovoltaic (PV) Modules - Design	Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of UL 61215-1-3:2021 + AMD1: 2023
1084.	Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Potential induced degradation test (MQT 21)	Cl. No. 11.21 of UL 61215-1-3:2021 + AMD1: 2023
1085.		Bending test (MQT 22)	Cl. No. 11.22 of UL 61215-1-3:2021 + AMD1: 2023
1086.		Marking and documentation	Cl. No. 5 of UL 61215-1-4:2021 + AMD1: 2023
1087.		Major visual defects	Cl. No. 8 of UL 61215-1-4:2021 + AMD1: 2023
1088.	Terrestrial Photovoltaic (PV) Modules - Design	Visual Inspection (MQT 01)	Cl. No. 11.1 of UL 61215-1-4:2021 + AMD1: 2023
1089.	Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu (In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Maximum power determination (MQT 02)	Cl. No. 11.2 of UL 61215-1-4:2021 + AMD1: 2023
1090.		Insulation test (MQT 03)	Cl. No. 11.3 of UL 61215-1-4:2021 + AMD1: 2023
1091.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of UL 61215-1-4:2021 + AMD1: 2023
1092.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of UL 61215-1-4:2021 + AMD1: 2023
1093.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of UL 61215-1-4:2021 + AMD1: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1094.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Outdoor exposure test (MQT 08)	Cl. No. 11.8 of UL 61215-1-4:2021 + AMD1: 2023
1095.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of UL 61215-1-4:2021 + AMD1: 2023
1096.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of UL 61215-1-4:2021 + AMD1: 2023
1097.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of UL 61215-1-4:2021 + AMD1: 2023
1098.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of UL 61215-1-4:2021 + AMD1: 2023
1099.		Damp heat test (MQT 13)	Cl. No. 11.13 of UL 61215-1-4:2021 + AMD1: 2023
1100.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of UL 61215-1-4:2021 + AMD1: 2023
1101.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of UL 61215-1-4:2021 + AMD1: 2023
1102.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of UL 61215-1-4:2021 + AMD1: 2023
1103.		Hail test (MQT 17)	Cl. No. 11.17 of UL 61215-1-4:2021 + AMD1: 2023
1104.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of UL 61215-1-4:2021 + AMD1: 2023
1105.	Stabilization (MQT 19)	Cl. No. 11.19 of UL 61215-1-4:2021 + AMD1: 2023	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1106.	Terrestrial Photovoltaic (PV) Modules - Design	Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of UL 61215-1-4:2021 + AMD1: 2023
1107.	Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu (In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	Potential induced degradation test (MQT 21)	Cl. No. 11.21 of UL 61215-1-4:2021 + AMD1: 2023
1108.		Bending test (MQT 22)	Cl. No. 11.22 of UL 61215-1-4:2021 + AMD1: 2023
1109.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Visual Inspection (MQT 01)	Cl. No. 4.1 of UL 61215-2:2021
1110.		Maximum power determination (MQT 02)	Cl. No. 4.2 of UL 61215-2:2021
1111.		Insulation test (MQT 03)	Cl. No. 4.3 of UL 61215-2:2021
1112.		Measurement of temperature coefficients (MQT 04)	Cl. No. 4.4 of UL 61215-2:2021
1113.		Performance at STC and NMOT (MQT 06)	Cl. No. 4.6 of UL 61215-2:2021
1114.		Performance at low irradiance (MQT 07)	Cl. No. 4.7 of UL 61215-2:2021
1115.		Outdoor exposure test (MQT 08)	Cl. No. 4.8 of UL 61215-2:2021
1116.		Hot-spot endurance test (MQT 09)	Cl. No. 4.9 of UL 61215-2:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1117.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	UV preconditioning test (MQT 10)	Cl. No. 4.10 of UL 61215-2:2021
1118.		Thermal cycling test (MQT 11)	Cl. No. 4.11 of UL 61215-2:2021
1119.		Humidity-freeze test (MQT 12)	Cl. No. 4.12 of UL 61215-2:2021
1120.		Damp heat test (MQT 13)	Cl. No. 4.13 of UL 61215-2:2021
1121.		Robustness of termination test (MQT 14)	Cl. No. 4.14 of UL 61215-2:2021
1122.		Wet leakage current test (MQT 15)	Cl. No. 4.15 of UL 61215-2:2021
1123.		Static mechanical load test (MQT 16)	Cl. No. 4.16 of UL 61215-2:2021
1124.		Hail test (MQT 17)	Cl. No. 4.17 of UL 61215-2:2021
1125.		Bypass diode thermal test (MQT 18)	Cl. No. 4.18 of UL 61215-2:2021
1126.		Stabilization (MQT 19)	Cl. No. 4.19 of UL 61215-2:2021
1127.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 4.20 of UL 61215-2:2021
1128.		Potential induced degradation test (MQT 21)	Cl. No. 4.21 of UL 61215-2:2021
1129.		Bending test (MQT 22)	Cl. No. 4.22 of UL 61215-2:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1130.	Photovoltaic (PV) Module Safety Qualification Part 1: Requirements for Construction	Classification, applications and intended use	Cl. No. 4 of UL 61730-1:2022
1131.		Marking and documentation	Cl. No. 5.2 of UL 61730-1:2022
1132.		Internal wiring	Cl. No. 5.3.2 of UL 61730-1:2022
1133.		External wiring and cables	Cl. No. 5.3.3 of UL 61730-1:2022
1134.		Connectors	Cl. No. 5.3.4 of UL 61730-1:2022
1135.		Junction Boxes for PV modules	Cl. No. 5.3.5 of UL 61730-1:2022
1136.		Front sheets and back sheets	Cl. No. 5.3.6 of UL 61730-1:2022
1137.		Insulation barriers	Cl. No. 5.3.7 of UL 61730-1:2022
1138.		Electrical connections	Cl. No. 5.3.8 of UL 61730-1:2022
1139.		Encapsulants	Cl. No. 5.3.9 of UL 61730-1:2022
1140.		Bypass Diodes	Cl. No. 5.3.10 of UL 61730-1
1141.		Mechanical and electromechanical connections	Cl. No. 5.4 of UL 61730-1:2022
1142.		Materials	Cl. No. 5.5 of UL 61730-1:2022
1143.		Protection against electric shock	Cl. No. 5.6 of UL 61730-1:2022

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Alpha Test House Services LLP

Plot No. 124, Industrial Area, Phase 9, Mohali,

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QAI/CIA/TL/2024/0087

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* Scope Amended w.e.f.: 28 March 2026

Valid until: 21 November 2026

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1144.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Visual inspection MST 01	Cl. No. 10.2 of UL 61730-2:2022 + AMD1: 2023
1145.		Performance at STC MST 02	Cl. No. 10.3 of UL 61730-2 :2022+ AMD1: 2023
1146.		Maximum power determination MST 03	Cl. No. 10.4 of UL 61730-2 :2022+ AMD1: 2023
1147.		Insulation thickness test MST 04	Cl. No. 10.5 of UL 61730-2 :2022+ AMD1: 2023
1148.		Durability of markings MST 05	Cl. No. 10.6 of UL 61730-2:2022 + AMD1: 2023
1149.		Sharp edge test MST 06	Cl. No. 10.7 of UL 61730-2 :2022+ AMD1: 2023
1150.		Bypass diode functionality test MST 07	Cl. No. 10.8 of UL 61730-2 :2022+ AMD1: 2023
1151.		Accessibility test MST 11	Cl. No. 10.9 of UL 61730-2 :2022+ AMD1: 2023
1152.		Cut susceptibility test MST 12	Cl. No. 10.10 of UL 61730-2:2022 + AMD1: 2023
1153.		Continuity test of equipotential bonding MST 13	Cl. No. 10.11 of UL 61730-2:2022 + AMD1: 2023
1154.		Impulse voltage test MST 14	Cl. No. 10.12 of UL 61730-2:2022 + AMD1: 2023
1155.		Insulation test MST 16	Cl. No. 10.13 of UL 61730-2:2022 + AMD1: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1156.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Wet leakage current test MST 17	Cl. No. 10.14 of UL 61730-2:2022 + AMD1: 2023
1157.		Temperature test MST 21	Cl. No. 10.15 of UL 61730-2:2022 + AMD1: 2023
1158.		Hot-spot endurance test MST 22	Cl. No. 10.16 of UL 61730-2:2022 + AMD1: 2023
1159.		Fire test MST 23	Cl. No. 10.17 of UL 61730-2:2022 + AMD1: 2023
1160.		Ignitability test MST 24	Cl. No. 10.18 of UL 61730-2:2022 + AMD1: 2023
1161.		Bypass diode thermal test MST 25	Cl. No. 10.19 of UL 61730-2:2022 + AMD1: 2023
1162.		Reverse current overload Test MST 26	Cl. No. 10.20 of UL 61730-2:2022 + AMD1: 2023
1163.		Module breakage test MST 32	Cl. No. 10.21 of UL 61730-2:2022 + AMD1: 2023
1164.		Screw connections test MST 33	Cl. No. 10.22 of UL 61730-2:2022 + AMD1: 2023
1165.		Static mechanical load test MST 34	Cl. No. 10.23 of UL 61730-2:2022 + AMD1: 2023
1166.		Peel test MST 35	Cl. No. 10.24 of UL 61730-2:2022 + AMD1: 2023
1167.	Lap shear strength test MST 36	Cl. No. 10.25 of UL 61730-2:2022 + AMD1: 2023	

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Solar Panels			
1168.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Materials creep test MST 37	Cl. No. 10.26 of UL 61730-2:2022 + AMD1: 2023	
1169.		Robustness of terminations test MST 42	Cl. No. 10.27 of UL 61730-2:2022 + AMD1: 2023	
1170.		Thermal cycling test MST 51	Cl. No. 10.28 of UL 61730-2:2022 + AMD1: 2023	
1171.		Humidity freeze test MST 52	Cl. No. 10.29 of UL 61730-2:2022 + AMD1: 2023	
1172.		Damp heat test MST 53	Cl. No. 10.30 of UL 61730-2:2022 + AMD1: 2023	
1173.		UV test MST 54	Cl. No. 10.31 of UL 61730-2:2022 + AMD1: 2023	
1174.		Cold conditioning MST 55	Cl. No. 10.32 of UL 61730-2:2022 + AMD1: 2023	
1175.		Dry heat conditioning MST 56	Cl. No. 10.33 of UL 61730-2:2022 + AMD1: 2023	
1176.		Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1: Test Requirements	Marking and documentation	Cl. No. 5 of BS EN IEC 61512-1:2021
1177.			Major visual defects	Cl. No. 8 of BS EN IEC 61215-1:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1178.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of BS EN IEC 61215-1-1:2021
1179.		Major visual defects	Cl. No. 8 of BS EN IEC 61215-1-1:2021
1180.		Visual Inspection (MQT 01)	Cl. No. 11.1 of BS EN IEC 61215-1-1:2021
1181.		Maximum power determination (MQT 02)	Cl. No. 11.2 of BS EN IEC 61215-1-1:2021
1182.		Insulation test (MQT 03)	Cl. No. 11.3 of BS EN IEC 61215-1-1:2021
1183.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of BS EN IEC 61215-1-1:2021
1184.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of BS EN IEC 61215-1-1:2021
1185.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of BS EN IEC 61215-1-1:2021
1186.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of BS EN IEC 61215-1-1:2021
1187.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of BS EN IEC 61215-1-1:2021
1188.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of BS EN IEC 61215-1-1:2021
1189.	Thermal cycling test (MQT 11)	Cl. No. 11.11 of BS EN IEC 61215-1-1:2021	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1190.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	Humidity-freeze test (MQT 12)	Cl. No. 11.12 of BS EN IEC 61215-1-1:2021
1191.		Damp heat test (MQT 13)	Cl. No. 11.13 of BS EN IEC 61215-1-1:2021
1192.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of BS EN IEC 61215-1-1:2021
1193.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of BS EN IEC 61215-1-1:2021
1194.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of BS EN IEC 61215-1-1:2021
1195.		Hail test (MQT 17)	Cl. No. 11.17 of BS EN IEC 61215-1-1:2021
1196.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of BS EN IEC 61215-1-1:2021
1197.		Stabilization (MQT 19)	Cl. No. 11.19 of BS EN IEC 61215-1-1:2021
1198.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of BS EN IEC 61215-1-1:2021
1199.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of BS EN IEC 61215-1-1:2021
1200.		Bending test (MQT 22)	Cl. No. 11.22 of BS EN IEC 61215-1-1:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1201.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1202.		Major visual defects	Cl. No. 8 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1203.		Visual Inspection (MQT 01)	Cl. No. 11.1 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1204.		Maximum power determination (MQT 02)	Cl. No. 11.2 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1205.		Insulation test (MQT 03)	Cl. No. 11.3 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1206.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1207.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1208.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1209.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1210.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1211.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1212.		Thermal cycling test (MQT 11)	Cl. No. 11.11 of BS EN IEC 61215-1-2:2021 + AMD1: 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1213.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules	Humidity-freeze test (MQT 12)	Cl. No. 11.12 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1214.		Damp heat test (MQT 13)	Cl. No. 11.13 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1215.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1216.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1217.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1218.		Hail test (MQT 17)	Cl. No. 11.17 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1219.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1220.		Stabilization (MQT 19)	Cl. No. 11.19 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1221.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1222.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of BS EN IEC 61215-1-2:2021 + AMD1: 2022
1223.		Bending test (MQT 22)	Cl. No. 11.22 of BS EN IEC 61215-1-2:2021 + AMD1: 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
	(CdTe) based photovoltaic (PV) modules		
1224.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1225.		Major visual defects	Cl. No. 8 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1226.		Visual Inspection (MQT 01)	Cl. No. 11.1 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1227.		Maximum power determination (MQT 02)	Cl. No. 11.2 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1228.		Insulation test (MQT 03)	Cl. No. 11.3 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1229.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1230.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1231.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1232.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1233.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1234.	UV preconditioning test (MQT 10)	Cl. No. 11.10 of BS EN IEC 61215-1-3:2021 + AMD1: 2022	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1235.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	Thermal cycling test (MQT 11)	Cl. No. 11.11 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1236.		Humidity-freeze test (MQT 12)	Cl. No. 11.12 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1237.		Damp heat test (MQT 13)	Cl. No. 11.13 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1238.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1239.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1240.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1241.		Hail test (MQT 17)	Cl. No. 11.17 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1242.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1243.		Stabilization (MQT 19)	Cl. No. 11.19 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1244.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1245.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of BS EN IEC 61215-1-3:2021 + AMD1: 2022
1246.		Bending test (MQT 22)	Cl. No. 11.22 of BS EN IEC 61215-1-3:2021 + AMD1: 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1247.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu (In, Ga) (S, Se) ² based photovoltaic (PV) modules	Marking and documentation	Cl. No. 5 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1248.		Major visual defects	Cl. No. 8 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1249.		Visual Inspection (MQT 01)	Cl. No. 11.1 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1250.		Maximum power determination (MQT 02)	Cl. No. 11.2 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1251.		Insulation test (MQT 03)	Cl. No. 11.3 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1252.		Measurement of temperature coefficients (MQT 04)	Cl. No. 11.4 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1253.		Performance at STC (MQT 06.1)	Cl. No. 11.6 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1254.		Performance at low irradiance (MQT 07)	Cl. No. 11.7 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1255.		Outdoor exposure test (MQT 08)	Cl. No. 11.8 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1256.		Hot-spot endurance test (MQT 09)	Cl. No. 11.9 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1257.		UV preconditioning test (MQT 10)	Cl. No. 11.10 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1258.	Thermal cycling test (MQT 11)	Cl. No. 11.11 of BS EN IEC 61215-1-4:2021 + AMD1: 2022	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1259.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S, Se) 2 based photovoltaic (PV) modules	Humidity-freeze test (MQT 12)	Cl. No. 11.12 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1260.		Damp heat test (MQT 13)	Cl. No. 11.13 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1261.		Robustness of termination test (MQT 14)	Cl. No. 11.14 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1262.		Wet leakage current test (MQT 15)	Cl. No. 11.15 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1263.		Static mechanical load test (MQT 16)	Cl. No. 11.16 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1264.		Hail test (MQT 17)	Cl. No. 11.17 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1265.		Bypass diode thermal test (MQT 18)	Cl. No. 11.18 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1266.		Stabilization (MQT 19)	Cl. No. 11.19 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1267.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 11.20 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1268.		Potential induced degradation test (MQT 21)	Cl. No. 11.21 of BS EN IEC 61215-1-4:2021 + AMD1: 2022
1269.		Bending test (MQT 22)	Cl. No. 11.22 of BS EN IEC 61215-1-4:2021 + AMD1: 2022

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1270.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Visual Inspection (MQT 01)	Cl. No. 4.1 of BS EN IEC 61215-2:2021
1271.		Maximum power determination (MQT 02)	Cl. No. 4.2 of BS EN IEC 61215-2:2021
1272.		Insulation test (MQT 03)	Cl. No. 4.3 of BS EN IEC 61215-2:2021
1273.		Measurement of temperature coefficients (MQT 04)	Cl. No. 4.4 of BS EN IEC 61215-2:2021
1274.		Performance at STC and NMOT (MQT 06)	Cl. No. 4.6 of BS EN IEC 61215-2:2021
1275.		Performance at low irradiance (MQT 07)	Cl. No. 4.7 of BS EN IEC 61215-2:2021
1276.		Outdoor exposure test (MQT 08)	Cl. No. 4.8 of BS EN IEC 61215-2:2021
1277.		Hot-spot endurance test (MQT 09)	Cl. No. 4.9 of BS EN IEC 61215-2:2021
1278.		UV preconditioning test (MQT 10)	Cl. No. 4.10 of BS EN IEC 61215-2:2021
1279.		Thermal cycling test (MQT 11)	Cl. No. 4.11 of BS EN IEC 61215-2:2021
1280.		Humidity-freeze test (MQT 12)	Cl. No. 4.12 of BS EN IEC 61215-2:2021
1281.		Damp heat test (MQT 13)	Cl. No. 4.13 of BS EN IEC 61215-2:2021

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1282.	Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval - Part 2: Test procedures	Robustness of termination test (MQT 14)	Cl. No. 4.14 of BS EN IEC 61215-2:2021
1283.		Wet leakage current test (MQT 15)	Cl. No. 4.15 of BS EN IEC 61215-2:2021
1284.		Static mechanical load test (MQT 16)	Cl. No. 4.16 of BS EN IEC 61215-2:2021
1285.		Hail test (MQT 17)	Cl. No. 4.17 of BS EN IEC 61215-2:2021
1286.		Bypass diode thermal test (MQT 18)	Cl. No. 4.18 of BS EN IEC 61215-2:2021
1287.		Stabilization (MQT 19)	Cl. No. 4.19 of BS EN IEC 61215-2:2021
1288.		Cyclic (dynamic) mechanical load test (MQT 20)	Cl. No. 4.20 of BS EN IEC 61215-2:2021
1289.		Potential induced degradation test (MQT 21)	Cl. No. 4.21 of BS EN IEC 61215-2:2021
1290.		Bending test (MQT 22)	Cl. No. 4.22 of BS EN IEC 61215-2:2021
1291.		Photovoltaic (PV) Module Safety Qualification Part 1: Requirements for Construction	Classification, applications and intended use
1292.	Requirements for design and construction		Cl. No. 5 of BS EN IEC 61730-1:2018
1293.	Marking and documentation		Cl. No. 5.2 of BS EN IEC 61730-1:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1294.	Photovoltaic (PV) Module Safety Qualification Part 1: Requirements for Construction	Electrical components and insulation	Cl. No. 5.3 of BS EN IEC 61730-1:2018
1295.		Mechanical and electromechanical connections	Cl. No. 5.4 of BS EN IEC 61730-1:2018
1296.		Materials	Cl. No. 5.5 of BS EN IEC 61730-1:2018
1297.		Protection against electric shock	Cl. No. 5.6 of BS EN IEC 61730-1:2018
1298.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Visual inspection MST 01	Cl. No. 10.2 of BS EN IEC 61730-2:2018
1299.		Performance at STC MST 02	Cl. No. 10.3 of BS EN IEC 61730-2:2018
1300.		Maximum power determination MST 03	Cl. No. 10.4 of BS EN IEC 61730-2:2018
1301.		Insulation thickness test MST 04	Cl. No. 10.5 of BS EN IEC 61730-2:2018
1302.		Durability of markings MST 05	Cl. No. 10.6 of BS EN IEC 61730-2:2018
1303.		Sharp edge test MST 06	Cl. No. 10.7 of BS EN IEC 61730-2:2018
1304.		Bypass diode functionality test MST 07	Cl. No. 10.8 of BS EN IEC 61730-2:2018
1305.		Accessibility test MST 11	Cl. No. 10.9 of BS EN IEC 61730-2:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1306.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Cut susceptibility test MST 12	Cl. No. 10.10 of BS EN IEC 61730-2:2018
1307.		Continuity test of equipotential bonding MST 13	Cl. No. 10.11 of BS EN IEC 61730-2:2018
1308.		Impulse voltage test MST 14	Cl. No. 10.12 of BS EN IEC 61730-2:2018
1309.		Insulation test MST 16	Cl. No. 10.13 of BS EN IEC 61730-2:2018
1310.		Wet leakage current test MST 17	Cl. No. 10.14 of BS EN IEC 61730-2:2018
1311.		Temperature test MST 21	Cl. No. 10.15 of BS EN IEC 61730-2:2018
1312.		Hot-spot endurance test MST 22	Cl. No. 10.16 of BS EN IEC 61730-2:2018
1313.		Fire test MST 23	Cl. No. 10.17 of BS EN IEC 61730-2:2018
1314.		Ignitability test MST 24	Cl. No. 10.18 of BS EN IEC 61730-2:2018
1315.		Bypass diode thermal test MST 25	Cl. No. 10.19 of BS EN IEC 61730-2:2018
1316.		Reverse current overload Test MST 26	Cl. No. 10.20 of BS EN IEC 61730-2:2018
1317.	Module breakage test MST 32	Cl. No. 10.21 of BS EN IEC 61730-2:2018	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1318.	Photovoltaic (PV) Module Safety Qualification Part 2: Requirements for testing	Screw connections test MST 33	Cl. No. 10.22 of BS EN IEC 61730-2:2018
1319.		Static mechanical load test MST 34	Cl. No. 10.23 of BS EN IEC 61730-2:2018
1320.		Peel test MST 35	Cl. No. 10.24 of BS EN IEC 61730-2:2018
1321.		Lap shear strength test MST 36	Cl. No. 10.25 of BS EN IEC 61730-2:2018
1322.		Materials creep test MST 37	Cl. No. 10.26 of BS EN IEC 61730-2:2018
1323.		Robustness of terminations test MST 42	Cl. No. 10.27 of BS EN IEC 61730-2:2018
1324.		Thermal cycling test MST 51	Cl. No. 10.28 of BS EN IEC 61730-2:2018
1325.		Humidity freeze test MST 52	Cl. No. 10.29 of BS EN IEC 61730-2:2018
1326.		Damp heat test MST 53	Cl. No. 10.30 of BS EN IEC 61730-2:2018
1327.		UV test MST 54	Cl. No. 10.31 of BS EN IEC 61730-2:2018
1328.		Cold conditioning MST 55	Cl. No. 10.32 of BS EN IEC 61730-2:2018
1329.		Dry heat conditioning MST 56	Cl. No. 10.33 of BS EN IEC 61730-2:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1330.	Solar Flat Plate Collector - Part 1 : Requirements	Components	Cl. 4 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1331.		Shape and dimensions	Cl. 5 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1332.		Assembly and workmanship	Cl. 6 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1333.		Static Pressure Leakage Test	Cl. 7.1.1 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1334.		Outdoor No Flow Exposure Test	Cl. 7.2.1 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1335.		External Thermal Shock Test	Cl. 7.2.2 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1336.		Internal Thermal Shock Test	Cl. 7.2.3 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1337.		Rain Penetration Test	Cl. 7.2.4 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1338.		Impact Resistance Test	Cl. 7.2.5 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1339.		Thermal Efficiency Test	Cl. 7.2.6 of IS 12933-1 + AMD1: 2005 + AMD2: 2007
1340.		Determination of the Time Constant	Cl. 7.2.7 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1341.		Incident Angle Modifier Test	Cl. 7.2.8 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1342.	Solar Flat Plate Collector - Part 1 : Requirements	MARKING	Cl. 9 of IS 12933-1:2003 + AMD1: 2005 + AMD2: 2007
1343.	Solar Flat Plate Collector - Part 2 : Components	Material	Cl. 4 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1344.		Transmittance Test	Cl. 5.1 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1345.		Material	Cl. 6 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1346.		Workmanship and finish	Cl. 7 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1347.		Absorber	Cl. 9 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1348.		Temperature Test	Cl. 9.1.4 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1349.		Static Pressure Leakage Test	Cl. 9.2.1 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1350.		Bonding Between Riser and Sheet	Cl. 9.2.2 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1351.		Back and side insulation	Cl. 10 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1352.		Materials	Cl. 11 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013
1353.	Thermal Shock Test	Cl. 12.1.1 of IS 12933-2:2003 + AMD1: 2005 + AMD2: 2008 + AMD3:2013	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1354.	Solar Flat Plate Collector - Part 5 : Test Methods	Mounting of Solar Collectors	Cl. 5.1 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1355.		Outdoor No-Flow Exposure Test	Cl. 5.2 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1356.		Static Pressure Leakage Test	Cl. 5.3 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1357.		External Thermal Shock Test	Cl. 5.4 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1358.		Internal Thermal Shock Test	Cl. 5.5 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1359.		Rain Penetration Test	Cl. 5.6 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1360.		Impact Resistance Test	Cl. 5.7 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1361.		Thermal Performance Tests	Cl. 6 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1362.		Thermal Efficiency Test	Cl. 6.4 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1363.		Determination of the Time Constant	Cl. 6.5 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010
1364.		Incident Angle Modifier Test	Cl. 6.6 of IS 12933-5:2003 + AMD1: 2005 + AMD2: 2010

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1365.	Test Procedure for Thermosyphon Type Domestic Solar Hot Water Heating Systems	Pre-Conditioning Test	Cl. 6.1 of IS 16368:2015
1366.		Static Pressure Leakage Test	Cl. 6.2 of IS 16368:2015
1367.		Thermal Performance Test	Cl. 7 of IS 16368:2015
1368.		Experimental Determination	Cl. 9 of IS 16368:2015
1369.	Direct Insertion Type Storage Water Tank for All Glass Evacuated Tubes Solar Collector — Specification	Inner Tank	Cl. 5.1 of IS 16542:2016 +AMD1:2023
1370.		Outer Cladding	Cl. 5.2 of IS 16542:2016 +AMD1:2023
1371.		Insulation Layer	Cl. 5.3 of IS 16542:2016 +AMD1:2023
1372.		Inner Sealing	Cl. 5.4 of IS 16542:2016 +AMD1:2023
1373.		Outer Sealing	Cl. 5.5 of IS 16542:2016 +AMD1:2023
1374.		Sacrificial Anode	Cl. 5.6 of IS 16542:2016 +AMD1:2023
1375.		GENERAL REQUIREMENTS	Cl. 6 of IS 16542:2016 +AMD1:2023
1376.		Measurement of Storage Water Tank Capacity	Cl. 7.1 & 8.1 of IS 16542:2016 +AMD1:2023
1377.		Leakage Test	Cl. 7.2 & 8.2 of IS 16542:2016 +AMD1:2023
1378.		Idle Heating Test	Cl. 7.3 & 8.3 of IS 16542:2016 +AMD1:2023
1379.		Integral Test	Cl. 7.4 & 8.4 of IS 16542:2016 +AMD1:2023
1380.	Performance Test	Cl. 7.5 & 8.5 of IS 16542:2016 +AMD1:2023	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1381.	Direct Insertion Type Storage Water Tank for All Glass Evacuated Tubes Solar Collector — Specification	Thermal Shock Test for Inner Sealing	Cl. 7.6 of IS 16542:2016 +AMD1:2023
1382.		Thermal Shock Test for Outer Sealing	Cl. 7.7 of IS 16542:2016 +AMD1:2023
1383.		Marking	Cl. 10 of IS 16542:2016 +AMD1:2023
1384.	All-Glass Evacuated Solar Collector Tubes- Specification	Structure of All-Glass Evacuated Solar Collector Tube	Cl. 4.1 of IS 16543:2024
1385.		Dimensions and Tolerances of All-Glass Evacuated Solar Collector Tubes	Cl. 4.2 of IS 16543:2024
1386.		Absorber Area for Different Tube Sizes	Cl. 4.3 of IS 16543:2024
1387.		Solar Selective Absorbing Coating	Cl. 4.4 of IS 16543:2024
1388.		Calculation for Number of Tubes for The Heating System	Cl. 4.5 of IS 16543:2024
1389.		Material	Cl. 5.1 of IS 16543:2024
1390.		Appearance and Dimensions	Cl. 5.2 of IS 16543:2024
1391.		Dimensions	Cl. 7.1 of IS 16543:2024
1392.		Material	Cl. 7.2 & Annex k of IS 16543:2024
1393.		Appearance and Dimensions	Cl. 7.3 of IS 16543:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1394.	All-Glass Evacuated Solar Collector Tubes- Specification	Stagnation Performance Parameter Test	Cl. 7.4 & Annex A of IS 16543:2024
1395.		Stagnation Solar Irradiation Test	Cl. 7.5 & Annex B of IS 16543:2024
1396.		Average Heat Loss Coefficient Test	Cl. 7.6 & Annex C of IS 16543:2024
1397.		Vacuum Performance Test	Cl. 7.7 & Annex D of IS 16543:2024
1398.		Resistance to Thermal Shock Test	Cl. 7.8 & Annex E of IS 16543:2024
1399.		Resistance to Impact Test	Cl. 7.9 & Annex F of IS 16543:2024
1400.		Resistance to Internal Pressure Test	Cl. 7.10 & Annex G of IS 16543:2024
1401.		Absorptivity and Emissivity Test of the Selective Coating	Cl. 7.11 & Annex H of IS 16543:2024
1402.		Marking	Cl. 9 of IS 16543:2024
1403.		All Glass Evacuated Tubes Solar Water Heating System	Design
1404.	General		Cl. 5.1 of IS 16544:2016 + AMD1: 2017
1405.	Over Temperature Protection for System		Cl. 5.2 of IS 16544:2016 + AMD1: 2017
1406.	Over Temperature Protection for Materials		Cl. 5.3 of IS 16544:2016 + AMD1: 2017
1407.	System Sizing		Cl. 5.4 & Annex A of IS 16544:2016 + AMD1: 2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solar Panels		
1408.	All Glass Evacuated Tubes Solar Water Heating System	Pre-conditioning Test	Cl. 6.1 of IS 16544:2016 + AMD1: 2017
1409.		Exterior Test	Cl. 6.2.1 & Annex B of IS 16544:2016 + AMD1: 2017
1410.		Leakage Test	Cl. 6.2.2 & Annex C of IS 16544:2016 + AMD1: 2017
1411.		Stagnation Test	Cl. 6.2.3 & Annex D of IS 16544:2016 + AMD1: 2017
1412.		External Thermal Shock Test	Cl. 6.2.4 & Annex E of IS 16544:2016 + AMD1: 2017
1413.		Internal Thermal Shock Test	Cl. 6.2.5 & Annex F of IS 16544:2016 + AMD1: 2017
1414.		Thermal Performance Test	Cl. 6.2.6 & Annex G of IS 16544:2016 + AMD1: 2017
1415.		Resistance to Impact Test	Cl. 6.2.7 & Annex G of IS 16544:2016 + AMD1: 2017
1416.		Marking	Cl. 8 of IS 16544:2016 + AMD1: 2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
1.	Cabinet Hinges — Specification	Type and size	Cl. 4 of IS 18297:2023 + AMD1:2024
2.		Materials	Cl. 5 of IS 18297:2023 + AMD1:2024
3.		Manufacture	Cl. 6 of IS 18297:2023 + AMD1:2024
4.		General test requirements	Cl. 7.1 of IS 18297:2023 + AMD1:2024
5.		Vertical static overload test	Cl. 7.2.1 of IS 18297: 2023+AMD1:2024
6.		Horizontal static overload test	Cl. 7.2.2 of IS 18297 :2023+ AMD1:2024
7.		Operating forces	Cl. 7.3.1 of IS 18297 :2023+ AMD1:2024
8.		First vertical static load test	Cl. 7.3.2 of IS 18297 :2023+ AMD1:2024
9.		First horizontal static load test	Cl. 7.3.3 of IS 18297 :2023+ AMD1:2024
10.		Slam shut test	Cl. 7.3.4 of IS 18297 :2023+ AMD1:2024
11.		Determination of reference point for the door sagging	Cl. 7.3.5 of IS 18297 :2023+ AMD1:2024
12.		Durability	Cl. 7.3.6 of IS 18297 :2023+ AMD1:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
13.	Cabinet Hinges — Specification	Deflection (sagging test)	Cl. 7.3.7 of IS 18297 :2023+ AMD1: 2024
14.		Second vertical static load	Cl. 7.3.8 of IS 18297 :2023+ AMD1: 2024
15.		Second horizontal static load	Cl. 7.3.9 of IS 18297 :2023+ AMD1: 2024
16.		Corrosion resistance	Cl. 7.4 of IS 18297 :2023+ AMD1:2024
17.		Finish	Cl. 7.5 of IS 18297 :2023+ AMD1:2024
18.		Marking	Cl. 8 of IS 18297 :2023+ AMD1:2024
19.	Non-Ferrous Metal Butt Hinges – Specification	Types	Cl. 3 of IS 205:1992 + AMD1:1992 + AMD2 :1993
20.		Material	Cl. 4 of IS 205:1992 + AMD1:1992 + AMD2 :1993
21.		Dimensions and tolerances	Cl. 5 of IS 205:1992 + AMD1:1992 + AMD2 :1993
22.		Manufacture	Cl. 6 of IS 205:1992 + AMD1:1992 + AMD2 :1993
23.		Workmanship and finish	Cl. 7 of IS 205:1992 + AMD1:1992 + AMD2 :1993
24.		Packing	Cl. 8 of IS 205:1992 + AMD1:1992 + AMD2 :1993

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
25.	Non-Ferrous Metal Butt Hinges - Specification	Marking	Cl. 10 of IS 205:1992 + AMD1:1992 + AMD2 :1993
26.	Steel butt hinges - specification	Types	Cl. 3 of IS 1341:2018 + AMD1:2021
27.		Materials	Cl. 4 of IS 1341:2018 + AMD1:2021
28.		Dimensions and tolerances	Cl. 5 of IS 1341:2018 + AMD1:2021
29.		Manufacture	Cl. 6 of IS 1341:2018 + AMD1:2021
30.		Finish	Cl. 7 of IS 1341:2018 + AMD1:2021
31.		Marking	Cl. 8 of IS 1341:2018 + AMD1:2021
32.		Packing	Cl. 9 of IS 1341:2018 + AMD1:2021
33.		Specification For Rising Butt Hinges	Types
34.	Materials		Cl. 4 of IS 9106:1979 + AMD1:1984
35.	Dimensions and tolerances		Cl. 5 of IS 9106:1979 + AMD1:1984
36.	Construction		Cl. 6 of IS 9106:1979 + AMD1:1984
37.	Workmanship and finish		Cl. 7 of IS 9106:1979 + AMD1:1984
38.	Marking		Cl. 8 of IS 9106:1979 + AMD1:1984
39.	Packing		Cl. 9 of IS 9106:1979 + AMD1:1984

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
40.	Stainless Steel Butt Hinges — Specification	Types	Cl. 3 of IS 12817:2020
41.		Materials	Cl. 4 of IS 12817:2020
42.		Size	Cl. 5 of IS 12817:2020
43.		Dimensions and tolerances	Cl. 6 of IS 12817:2020
44.		Manufacture	Cl. 7 of IS 12817:2020
45.		Finish	Cl. 8 of IS 12817:2020
46.		Marking	Cl. 10 of IS 12817:2020
47.		Packing	Cl. 11 of IS 12817:2020
48.	Floor Springs (Hydraulically Regulated) For Heavy Doors - Specification	Type and size	Cl. 4 of IS 6315:1992 + AMD1:2010
49.		Materials	Cl. 5 of IS 6315:1992 + AMD1:2010
50.		Manufacture and construction	Cl. 6 of IS 6315:1992 + AMD1:2010
51.		Dimensions and tolerances	Cl. 7 of IS 6315:1992 + AMD1:2010
52.		Construction	Cl. 8 of IS 6315:1992 + AMD1:2010
53.		Performance requirements	Cl. 9 of IS 6315:1992 + AMD1:2010
54.		Workmanship	Cl. 10 of IS 6315:1992 + AMD1:2010

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
55.	Floor Springs (Hydraulically Regulated) For Heavy Doors - Specification	Finish	Cl. 11 of IS 6315:1992 + AMD1:2010
56.		Marking	Cl. 12 of IS 6315:1992 + AMD1:2010
57.		Packing	Cl. 13 of IS 6315:1992 + AMD1:2010
58.	Specification for double action floor springs (without oil check) heavy door	Type and shape	Cl. 3 of IS 7197:1974
59.		Materials	Cl. 4 of IS 7197:1974
60.		Manufacture	Cl. 5 of IS 7197:1974
61.		Dimensions and tolerances	Cl. 6 of IS 7197:1974
62.		Construction	Cl. 7 of IS 7197:1974
63.		Performance requirements	Cl. 8 of IS 7197:1974
64.		Workmanship	Cl. 9 of IS 7197:1974
65.		Finish	Cl. 10 of IS 7197:1974
66.		Marking	Cl. 11 of IS 7197:1974
67.		Packing	Cl. 12 of IS 7197:1974
68.		Types	Cl. 4 of IS 3564:1995
69.	Hydraulically Regulated Door Closers -Specification	Components	Cl. 5 of IS 3564:1995

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
70.	Hydraulically Regulated Door Closers -Specification	Nominal sizes	Cl. 6 of IS 3564:1995
71.		Materials	Cl. 7 of IS 3564:1995
72.		Essential requirements	Cl. 8 of IS 3564:1995
73.		Finish	Cl. 9 of IS 3564:1995
74.		Tests	Cl. 10 & Annex B of IS 3564:1995
75.		Marking	Cl. 11 of IS 3564:1995
76.		Packing	Cl. 12 of IS 3564:1995
77.	Specification for door closers (pneumatically regulated) for light doors weighing up to 40 kg	Materials	Cl. 3 of IS 6343:1982
78.		Manufacture	Cl. 4 of IS 6343:1982
79.		Dimensions and tolerances	Cl. 5 of IS 6343:1982
80.		General requirements	Cl. 6 of IS 6343:1982
81.		Performance requirements	Cl. 7 of IS 6343:1982
82.		Finish	Cl. 8 of IS 6343:1982
83.		Marking	Cl. 9 of IS 6343:1982
84.		Packing	Cl. 10 of IS 6343:1982

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
85.	Door Closers, Concealed Type (Hydraulically Regulated) - specification	Components	Cl. 4 of IS 14912:2001
86.		Nominal sizes	Cl. 5 of IS 14912:2001
87.		Materials	Cl. 6 of IS 14912:2001
88.		Essential requirements	Cl. 7 of IS 14912:2001
89.		Finish	Cl. 8 of IS 14912:2001
90.		Tests	Cl. 9 & Annex B of IS 14912:2001
91.		Marking	Cl. 10 of IS 14912:2001
92.		Packing	Cl. 11 of IS 14912:2001
93.	Telescopic Ball Bearing Drawer Slide — Specification	Classification	Cl. 3 of IS 17954:2023 +AMD1:2023 + AMD2:2024
94.		Dimensions and tolerances	Cl. 4 of IS 17954:2023+ AMD1:2023+ AMD2:2024
95.		Components and manufacture	Cl. 5 of IS 17954:2023 +AMD1:2023 + AMD2:2024
96.		General requirements	Cl. 6 of IS 17954:2023 +AMD1:2023 + AMD2:2024
97.		Vertical load test	Cl. 7 of IS 17954:2023 +AMD1:2023 + AMD2:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
98.	Telescopic Ball Bearing Drawer Slide — Specification	Horizontal load test	Cl. 8 of IS 17954:2023 +AMD1:2023 + AMD2:2024
99.		Durability test	Cl. 9 of IS 17954:2023 +AMD1:2023 + AMD2:2024
100.		Deflection test	Cl. 10 of IS 17954:2023 +AMD1:2023 + AMD2:2024
101.		Slam test	Cl. 11 of IS 17954:2023 +AMD1:2023 + AMD2:2024
102.		Finish	Cl. 12 of IS 17954:2023 +AMD1:2023 + AMD2:2024
103.		Packing	Cl. 13 of IS 17954:2023 +AMD1:2023 + AMD2:2024
104.		Marking	Cl. 14 of IS 17954:2023 +AMD1:2023 + AMD2:2024
105.		Door Handles - Specification	Types
106.	Door Handles - Specification	Materials	Cl. 4 of IS 208:2020 +AMD1:2023
107.	Door Handles - Specification	Manufacture	Cl. 5 of IS 208:2020 +AMD1:2023
108.	Door Handles - Specification	Dimensions and tolerances	Cl. 6 of IS 208:2020 +AMD1:2023
109.	Door Handles - Specification	Finish	Cl. 7 of IS 208:2020 +AMD1:2023
110.	Door Handles - Specification	Pencil Hardness Test	Cl. 8.1 of IS 208:2020 +AMD1:2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
111.	Door Handles - Specification	Corrosion Test	Cl. 8.2 of IS 208:2020 +AMD1:2023
112.	Door Handles - Specification	Quenching Test	Cl. 8.3 of IS 208:2020 +AMD1:2023
113.	Door Handles - Specification	Marking	Cl. 10 of IS 208:2020 +AMD1:2023
114.	Door Handles - Specification	Packing	Cl. 11 of IS 208:2020 +AMD1:2023
115.	Door Handles for Mortice Locks — Specification	Design of Lever Door Handle and Door Knob	Cl. 4.1 of IS 4992:2024
116.		Key Hole Profiles	Cl. 4.2 of IS 4992:2024
117.		Design of Parts and Types of Handle Cover Plates and Rosets	Cl. 4.3 of IS 4992:2024
118.		Dimensional Details	Cl. 4.4 of IS 4992:2024
119.		Fasteners	Cl. 4.5 of IS 4992:2024
120.		Classification	Cl. 5 of IS 4992:2024
121.		Fastening Elements and Spindle	Cl. 6.1 of IS 4992:2024
122.		Axial Strength	Cl. 6.2 of IS 4992:2024
123.		Safety Requirements	Cl. 6.3 of IS 4992:2024
124.		Durability of Mechanism	Cl. 6.4 of IS 4992:2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous- Architectural Hardware Specifications		
125.		Corrosion Resistance	Cl. 6.5 of IS 4992:2024
126.		Fire Resistance Test	Cl. 6.6 of IS 4992:2024
127.		Marking	Cl. 8 of IS 4992:2024
128.		Packing	Cl. 9 of IS 4992:2024



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Glass		
1.	Safety glass — specification	Test of resistance to chemicals	Cl. 5.2.3 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023
2.	Safety glass — specification	Test of resistance to chemicals	Cl. 6.15 of IS 2553 (Part 2): 2019 +A1:2020 +A2:2021 +A3:2022 +A4:2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Wood and Wood Products			
1.	Plywood for general purposes	Formaldehyde content test	Cl. 11.6 of IS 303: 2024
2.	Plywood for general purposes	Formaldehyde content test	IS 13745: 2020
3.	Plywood for general purposes	Steady-state formaldehyde emission test (optional)	Cl. 11.7 of IS 303: 2024
4.	Plywood for general purposes	Steady-state formaldehyde emission test	IS/ISO 12460 (Part 1): 2007
5.	Plywood	Determination of pH value	IS 1734 (Part 8): 1983
6.	Plywood	Acidity and alkalinity resistance test	IS 1734 (Part 20): 1983
7.	Plywood for concrete shuttering works	Formaldehyde content test	Cl. 10.12 of IS 4990: 2024
8.	Plywood for concrete shuttering works	Steady-state formaldehyde emission test	Cl. 10.13 of IS 4990: 2024
9.	Marine plywood	Formaldehyde content test	Cl. 9.11 of IS 710: 2024
10.	Marine plywood	Steady-state formaldehyde emission test	Cl. 9.12 of IS 710: 2024
11.	Synthetic resin adhesives for plywood (phenolic and amino plastic)	Acidity and alkalinity (pH)	Cl. 7.4 of IS 848: 2006+ A1: 2007 + A2: 2011

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Wood and Wood Products			
12.	Synthetic resin adhesives for plywood (phenolic and amino plastic)	Determination of pH (hydrogen ion concentration) value of liquid or powdered resin adhesives	ANNEX - B of IS 848: 2006+ A1: 2007 + A2: 2011
13.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Formaldehyde content	Cl. 9.7 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
14.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Test for formaldehyde content	Cl. 11.11 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
15.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Steady state formaldehyde emission value	Cl. 9.8 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
16.	Particle boards of wood and other lignocellulosic materials (medium density) for general purposes	Test for steady state formaldehyde emission value	Cl. 11.12 of IS 3087: 2005 +A1:2006 +A2:2011 +A3:2016 +A4:2017 +A5:2018
17.	Prelaminated particle boards from wood and other lignocellulosic material	Test for formaldehyde content/emission	Cl.10.15 of IS 12823: 2015 +A1:2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
1.	Environmental Testing - Part 2 Tests - Section 1 Test A: Cold	Cold	IS/IEC 60068 : Part 2 : Sec 1 : 2007
2.	Environmental Testing Part 2: Tests - Test B Section 2: Dry Heat	Dry Heat	IS/IEC 60068 : Part 2 : Sec 2 : 2007
3.	Environmental testing- Part 2-11: Tests - Test Ka: Salt mist	Salt mist	IEC 60068-2-11:2021
4.	Environmental Testing - Part 2 Tests - Section 30 Test Db: Damp Heat Cyclic (12 h + 12 h Cycle)	Damp Heat Cyclic	IS/IEC 60068 : Part 2 : Sec 30 : 2005
5.	Environmental Testing - Part 2 Tests - Section 5 Test Z/AD: Composite Temperature Humidity Cyclic test	Composite Temperature Humidity Cyclic test	IS/IEC 60068 : Part 2 : Sec 38 : 2021
6.	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Salt mist, cyclic	IEC 60068-2-52:2017
7.	Basic environmental testing procedures for electronic and electrical items: Part 3 Dry heat test	Dry heat test	IS 9000 : Part 3 : Sec 1 to 5 : 1977

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
8.	Environmental Testing Part 4 Tests-Test Cab: Damp Heat, Steady State	Damp Heat, Steady State	IS 9000 : Part 4 : 2020
9.	Basic environmental testing procedures for electronic and electrical items: Part 5 Damp heat (cyclic) test	Damp heat (cyclic) test	IS 9000 : Part 5 : Sec 1 AND 2 :1981
10.	Environmental Testing of Telecommunication Equipment	Tropical exposure (Damp Heat Cyclic)	Test No. 3 of QM-333 : 2010
11.		Water immersion Test	Test No. 8 of QM-333 : 2010
12.		Topple test	Test No. 11 of QM-333 : 2010
13.		Fall test	Test No. 12 of QM-333 : 2010
14.	Environmental test methods for electronic and electrical equipment	Damp Heat	Table No. 10 of JSS 55555 : 2020
15.		High Temperature	Table No. 17 of JSS 55555: 2020
16.		Immersion	Table No. 19 of JSS 55555: 2020
17.		Low Temperature	Table No. 20 of JSS 55555: 2020
18.		Toppling	Table No. 26 of JSS 55555: 2020
19.	Environmental testing - Part 2-68: Tests - Test L: Dust and sand	Dust and sand (Except La1)	IS/IEC 60068: Part 2: Sec 68 :1994

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*** Note:**

Scope Extension 1:

Following scope of accreditation is extended w.e.f. **12 May 2025:**

Mechanical Testing-

Building, Infrastructure & Construction Materials (S. No.- 1 to 150; Page no. 39-50)

Solar Panel (S. No.- 1 to 1416; Page no. 51-166)

Miscellaneous (Architectural Hardware Specifications) (S. No.- 1 to 128; Page no. 167-176)

Electrical Testing-

Environmental Test Facility (S. No.- 1 to 18; Page no. 180-181)

Scope Extension 2:

Following scope of accreditation is extended w.e.f. **03 September 2025:**

Electrical Testing-

Environmental Test Facility (S. No.- 19; Page no.-181)

Scope Amendment 1:

Following standards have been added under Solar Panels (Mechanical Testing) w.e.f. **01 October 2025:**

- IS/IEC 61730-1 : 2023 (S. No.-543-557; Page no.93-94)
- IS/IEC 61730-2 : 2023 (S. No.-558-589; Page no.95-98)

Scope Amendment 2:

The test method on S.No. 596 has been corrected under Solar Panels (Mechanical Testing) w.e.f. **28 March 2026.**

