National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CEPT RESEARCH & DEVELOPMENT FOUNDATION, CEPT UNIVERSITY, K L CAMPUS, NAVRANGPURA, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Building Envelope (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, metal alloys & high conducting materials, Plastics & Polymers, Paints & Coatings, Glass, Fabric, Liquid, paste & powders, refractory materials, wall assembly of above listed materials)	Thermal Transmittance (U value) (5°C to 50°C)	ASTM C 1363
2	MECHANICAL- BUILDINGS MATERIALS	Building Envelope (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, metal alloys & high conducting materials, Plastics & Polymers, Paints & Coatings, Glass, Fabric, Liquid, paste & powders, refractory materials, wall assembly of above-listed materials)	Thermal Transmittance (U value) (5°C to 50°C)	ISO 8990
3	MECHANICAL- BUILDINGS MATERIALS	Building Materials (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, metal alloys & high conducting materials, Plastics & Polymers, Paints & Coatings, Glass, Fabric, Liquid, paste & powders, refractory materials)	Specific Heat Capacity	ISO 22007-2
4	MECHANICAL- BUILDINGS MATERIALS	Building Materials (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, metal alloys & high conducting materials, Plastics & Polymers, Paints & Coatings, Glass, Fabric, Liquid, paste & powders, refractory materials)	Thermal conductivity	ISO 22007-2
5	MECHANICAL- BUILDINGS MATERIALS	Building Materials (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, metal alloys & high conducting materials, Plastics & Polymers, Paints & Coatings, Glass, Fabric, Liquid, paste & powders, refractory materials)	Thermal Diffusivity	ISO 22007-2
6	MECHANICAL- BUILDINGS MATERIALS	Building Materials (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, Plastics & Polymers, Paints & Coatings, Papers & Films, Metal and Alloy, Fabric)	Hygroscopic sorption isotherms	ASTM C 1498
7	MECHANICAL- BUILDINGS MATERIALS	Building Materials (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, Plastics & Polymers, Paints & Coatings, Papers & Films, Metal and Alloy, Fabric)	Moisture retention curve	ASTM C 1699
8	MECHANICAL- BUILDINGS MATERIALS	Building Materials (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, Plastics & Polymers, Paints & Coatings, Papers & Films, Metal and Alloy, Fabric)	Water Absorption Co-efficient	ASTM C 1794
9	MECHANICAL- BUILDINGS MATERIALS	Building Materials (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, Plastics & Polymers, Paints & Coatings, Papers & Films, Metal and Alloy, Fabric)	Water Vapour Permeability	ASTM E96/E96M

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10	MECHANICAL- BUILDINGS MATERIALS	Building Materials (Bricks, Blocks, Tiles, Concrete, Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, Plastics & Polymers, Paints & Coatings, Papers & Films, Metal and Alloy, Fabric)	Water Vapour Permeance	ASTM E96/E96M
11	MECHANICAL- BUILDINGS MATERIALS	Glazing Materials (Glass, Paints, Tiles, Opaque Materials)	Thermal Emissivity	ASTM C 1371
12	MECHANICAL- BUILDINGS MATERIALS	Insulating Materials	Thermal Conductivity	ASTM C 518
13	MECHANICAL- BUILDINGS MATERIALS	Insulating Materials	Thermal Conductivity	EN 12667
14	MECHANICAL- BUILDINGS MATERIALS	Insulating Materials	Thermal Conductivity	ISO 8301
15	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Room Air-conditioner (Split)	Cooling Capacity / Cooling Capacity Rating	IS 1391: Part 2, Clause 9.9
16	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Room Air-conditioner (Split)	Indian Seasonal Energy Efficiency Ratio (ISEER)/ Energy Efficiency Ratio (EER)	IS 1391: Part 2, Clause 9.12
17	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Room Air-conditioner (Window)	Cooling Capacity / Cooling Capacity Rating	IS 1391: Part 1, Clause 10.10
18	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Room Air-conditioner (Window)	Indian Seasonal Energy Efficiency Ratio (ISEER)/ Energy Efficiency Ratio (EER)	IS 1391: Part 1, Clause 10.13
19	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Room Air-conditioner (Window)	Power Consumption	IS 1391: Part 1, Clause 10.8
20	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	ASTM E 903
21	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	ASTM E903
22	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	EN 410
23	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	EN 410
24	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	IS 16231 Part 2
25	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	IS 16231-2

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26	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	ISO 9050
27	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	ISO 9050
28	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	NFRC 300
29	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Absorptance (Initial and after Weathering and Soiling)	NFRC 300
30	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	ASTM C1371
31	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	BS EN 12898
32	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	BS EN 12898
33	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	EN 673
34	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	ASTM D 7897
35	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	ASTM D7897
36	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	ASTM E 1980
37	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	ASTM E 1980
38	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	EN 673
39	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	NFRC 301
40	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Emissivity (Initial and after Weathering and Soiling)	NFRC 301
41	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	ASTM D7897
42	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	ASTM E903
43	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	EN 410
44	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	ISO 9050

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45	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	NFRC 300
46	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	ASTM D 7897
47	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	ASTM E 1980
48	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	ASTM E 1980
49	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	ASTM E 903
50	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	EN 410
51	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	IS 16231 Part 2
52	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	IS 16231-2
53	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	ISO 9050
54	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Reflectance (Initial and after Weathering and Soiling)	NFRC 300
55	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	ASTM E 903
56	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	EN 410
57	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	IS 16231-2
58	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	ISO 9050
59	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	NFRC 300
60	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	ASTM E 903
61	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	EN 410
62	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	IS 16231 Part 2
63	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	ISO 9050

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64	PHOTOMETRY-GLASSES/MIRRORS	Glazing Material (Glass, Paints, Tiles, Opaque Materials)	Transmittance (Initial and after Weathering and Soiling)	NFRC 300