

Laboratory CEPT Research and Development Foundation, CEPT University, K.L, Campus, Navrangpura, Ahmedabad, Gujarat
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-7020 (in lieu of T-3863 & T-2169) **Page 1 of 3**
Validity 09.03.2018 to 08.03.2020 **Last Amended on** 12.03.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

MECHANICAL TESTING

I.	BUILDING MATERIALS			
1.	Insulating Materials	Thermal Conductivity	ASTM C 518	0.01 W/m K to 0.2 W/m K
2.	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	0.005 W/mK to 1800 W/mK
		Thermal Diffusivity		0.01 mm ² /s to 1200 mm ² /s
		Specific Heat Capacity		0.1 MJ/m ³ K to 5 MJ/m ³ K
3.	Fenestration (Door and Windows) - Fluid Flow	Volume air leakage rate	ASTM E 283 NFRC 400	0.01699 m ³ /hr to 13.5918 m ³ /hr (0.01 ft ³ /m to 8.00 ft ³ /m)
4.	Glazing Materials (Glass, Paints, Tiles, Opaque Materials)	Thermal Emissivity	ASTM C 1371	0.02 to 1
5.	Building Materials (Bricks, Blocks, Tiles, Concrete,	Water Vapour Permeability/Water Vapour Permeance	ASTM E 96 / E 96 M	0.01 to 175 ng/msPa 10 to 175000 ng/m ² sPa

Laboratory CEPT Research and Development Foundation, CEPT University, K.L. Campus, Navrangpura, Ahmedabad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7020 *(in lieu of T-3863 & T-2169)* **Page 2 of 3**

Validity 09.03.2018 to 08.03.2020 **Last Amended on** 12.03.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cement Aggregates, Insulating Materials, Stones, Soil, mud & clay, Plastics & Polymers, Paints & Coatings, Papers & Films, Metal and Alloy, Fabric)	Hygroscopic sorption isotherms	ASTM C 1498:a	0.01 to 1
		Water Absorption Co-efficient	ASTM C 1794	0.01 kg/m ² sqrt(h) to 25 kg/m ² sqrt(h)
		Moisture retention curve	ASTM C 1699	0.01 to 1
6.	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)	U value (Thermal Transmittance)	ASTM C 1363	0.1 W/m ² K to 2.0 W/m ² K (5 °C to 50 °C)

Laboratory CEPT Research and Development Foundation, CEPT University, K.L,
 Campus, Navrangpura, Ahmedabad, Gujarat
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-7020 *(in lieu of T-3863 & T-2169)* **Page 3 of 3**
Validity 09.03.2018 to 08.03.2020 **Last Amended on** 12.03.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

PHOTOMETRY TESTING

I.	GLASSES/MIRRORS			
1.	Glazing Materials (Glass, Paint, Tiles, Opaque Material)	Transmittance Reflectance Absorbance (Initial and after Weathering and Soiling)	NFRC 300 ISO 9050 EN 410 IS 16231 (Part 2) ASTM E903 ASTM E1980 ASTM D 7897	0.1 % to 100 % / 0.001 to 1
		Emissivity (Initial and after Weathering and Soiling)	EN 673 BS EN 12898 ASTM E1980 ASTM D 7897	0.1 % to 100 % / 0.001 to 1