

Accreditation Scope

Construction Materials Testing-Green Building

014-LB-TEST

Construction Material Laboratory Section

Dubai Central Laboratory Department

Dubai Municipality

Za'beel Street, Al Karamah, Dubai- United Arab Emirates

Issue no.: 05

Date: 29-05-2019

Valid to: 28-05-2022

Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Method for Small Clear Specimens of Timber. Static Bending.	ASTM D143 Clause 8
Physical/ Mechanical	Construction Materials	Standard Specification for Preformed Flexible Elastomeric Cellular Thermal Insulation in Sheet and Tubular Form. Linear Shrinkage.	ASTM C534/C534M Clause 11.4 (Oven Method)

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Thermal performance of building materials and products -Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Products of high and medium thermal resistance. (Heat Flow Meter Method)	BS EN 12667

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Type of Activity	Test Materials/Products	Test Name	Test Method
		Thermal insulation - Determination of steady-state thermal resistance and related properties - Heat flow meter apparatus.	ISO 8301 Amd 1:2010 (E)
Physical/ Mechanical	Construction Materials	Fire classification of construction products and building elements Part 1 : Classification using test data from reaction to fire tests	BS EN 13501 Part 1+A1
Physical/ Mechanical	Construction Materials	Light reflectance value (LRV) of a surface. Method of test	BS 8493 + A1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces	ASTM E1980
Physical/ Mechanical	Construction Materials	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	ASTM C518
Physical/ Mechanical	Construction Materials	Standard Test Methods for Water Vapor Transmission of Materials	ASTM E96/E96M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications Determination of dimensional stability under constant normal laboratory conditions (23°C/50% relative humidity)	BS EN 1603
Physical/ Mechanical	Construction Materials	Standard Test Method for Water Absorption of Core Materials for Sandwich Constructions	ASTM C272/C272M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C	ASTM E136
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of bending behaviour	BS EN 12089 Method B
Physical/ Mechanical	Construction Materials	Standard Test Method for Determining the Water Vapour Sorption of Un faced Mineral Fiber Insulation	ASTM C1104/C1104M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Method for Dimensions and Density of Preformed Block and Board-Type Thermal Insulation	ASTM C303
Physical/ Mechanical	Construction Materials	Standard Test Method for Measuring Compressive Properties of Thermal Insulations	ASTM C165 Procedure A/B
Physical/ Mechanical	Construction Materials	Standard Test Methods of Testing Cellular Glass Insulation Block	ASTM C240 Clause 5.3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Specification for Fibrous Glass Thermal Insulation and Sound Absorbing Blanket and Board for Military Applications Clause 11.4: Binder Content	ASTM C1139 Clause 11.4
Physical/ Mechanical	Construction Materials	Methods of test for inorganic thermal insulating materials Section 3: Bulk Density Preformed flat material	BS 2972 Section 3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Methods of test for thermal insulating materials Section 14: Coarse Shot Content	BS 2972 Section 14
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of squareness	BS EN 824
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of flatness	BS EN 825

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Methods of test for thermal insulating materials Section 18: Flexural Strength	BS 2972 Section 18
Physical/ Mechanical	Construction Materials	Standard Test Method for Determining the Moisture Content of Organic and Inorganic Insulation Materials by Weight	ASTM C1616
Physical/ Mechanical	Construction Materials	Methods of test for thermal insulating materials Section 11: Moisture content as received	BS 2972 Section 11

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Method for Measuring Non-Fibrous Content of Man-Made Rock and Slag Mineral Fiber Insulation	ASTM C1335
Physical/ Mechanical	Construction Materials	Standard Test Method for Assessing the Odor Emission of Thermal Insulation Materials	ASTM C1304
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of tensile strength parallel to faces	BS EN 1608

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Method for Measuring Trueness and Squareness of Rigid Block and Board Thermal Insulation	ASTM C550
Physical/ Mechanical	Construction Materials	Methods of test for thermal insulating materials Section 12: Water Absorption; Total Immersion	BS 2972 Section 12

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation Clause 9: Workmanship, Finish & Appearance	ASTM C578 Clause 9
Physical/ Mechanical	Construction Materials	Standard Test Method for Apparent Density of Rigid Cellular Plastics	ASTM D1622
Physical/ Mechanical	Construction Materials	Standard Test Method for Compressive Properties of Rigid Cellular Plastics (Forces greater than 20kN)	ASTM D1621

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of the apparent density	BS EN 1602
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of thickness	BS EN 823
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of length and width	BS EN 822

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of long term water absorption by immersion Method 1A: Long term water absorption by partial immersion (drainage); Method 2A: Long term water absorption by total immersion (drainage)	BS EN 12087 Method 1A & Method 2A

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of short term water absorption by partial immersion Method A: Drainage	BS EN 1609 Method A
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of dimensional stability under specified temperature and humidity conditions	BS EN 1604

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Methods for Cellulosic Fiber Insulating Board Clause 14: Water Absorption	ASTM C209 Clause: 14
Physical/ Mechanical	Construction Materials	Standard Test Method for Density and Dimensions of Preformed Pipe-Covering-Type Thermal Insulation Procedure A: One piece pipe section	ASTM C302 Procedure A

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Methods for Thickness and Density of Blanket or Batt Thermal Insulations	ASTM C167
Physical/ Mechanical	Construction Materials	Thermal insulating products for building applications. Determination of compression behaviour	BS EN 826
Physical/ Mechanical	Construction Materials	Reaction to fire tests. Ignitability of building products subjected to direct impingement of flame. Part 2: Single-flame source test	BS EN ISO 11925 Part 2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Method for Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index)	ASTM D2863 Clause 11.1.7
Physical/ Mechanical	Construction Materials	Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging	ASTM D2126

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation	ASTM C203
Physical/ Mechanical	Construction Materials	Methods of test for Inorganic thermal insulating materials. Section 16: Determination of organic matter.	BS 2972 Section 16, Method 1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Construction Materials	Methods of test for Inorganic thermal insulating materials. Section 3: Bulk density (preformed materials - pipe section)	BS 2972 Section 3
Physical/ Mechanical	Aluminium composite cladding panels	Standard Test Method for Determination of Thickness of Aluminum Composite Panel (ACP)	DMS 030
Physical/ Mechanical	Aluminium composite cladding panels	Standard Test Method for Determination of Length and Width of Aluminum Composite Panel (ACP)	DMS 028

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical/ Mechanical	Aluminium composite cladding panels	Standard Test Method for Determination of Mass Per Unit Area of Aluminum Composite Panel (ACP)	DMS 029
Chemical	Paints & Sealants	Determination of Volatile Organic Compounds (VOC) content in various materials or coatings by difference method"	DMS 0033
Chemical	Paints & Sealants	Paints and varnishes Part 1: Determination of volatile organic compound (VOC) content. Difference method	BS EN ISO 11890 Part 1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Paints & Sealants	Paints and varnishes Part 2: Determination of volatile organic compound (VOC) content. Gas- chromatographic method	BS EN ISO 11890 Part 2
Chemical	Paints & Sealants	Standard Test Method for Measurement of Evolved Formaldehyde from Water Reducible Air- Dry Coatings	ASTM D6191

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Paints & Sealants	Standard Test Method for Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), or Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques; The witnessed test includes the following elements (Arsenic, Cadmium & Mercury) in addition to Lead	ASTM E1613 ADDM 14(2016)

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Paints	ISO 3856: Paints and varnishes-Determination of "soluble" metal content Part 5: Determination of hexavalent chromium content of the pigment portion of the liquid paint or the paint in powder form -- Diphenylcarbazide spectrophotometric method	ISO 3856 Part 5

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Paints	Methods of test for paints. Tests involving chemical examination of liquid paints and dried paint films Part B10: Determination of hexavalent chromium content of solid matter	BS 3900 Part B10
Chemical	Paints	Standard Test Method for Determination of Free Formaldehyde in Emulsion Polymers by Liquid Chromatography	ASTM D5910

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Type of Activity	Test Materials/Products	Test Name	Test Method
Thermal	Construction Materials	Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus	ASTM C177
Thermal	Construction Materials	Thermal insulation. Determination of steady-state thermal resistance and related properties. Guarded hot plate apparatus	ISO 8302

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical	Construction Materials	Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials. Water Absorption and Thickness Swelling	ASTM D1037 Clause 23 Method B
Physical	Construction Materials	Wood- Based Panels - Determination of Moisture Content	BS EN 322

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Type of Activity	Test Materials/Products	Test Name	Test Method
Physical	Construction Materials	Standard Test Method for Classifying the Flexibility or Rigidity of Mineral Fiber Blanket and Board Insulation	ASTM C1101/C1101M

Accreditation History		
Issue no.	Details	Date
05	Extention in scope, renewal of accreditation and first issuance under the name of EIAC (which was formerly known as DAC)	29-05-2019